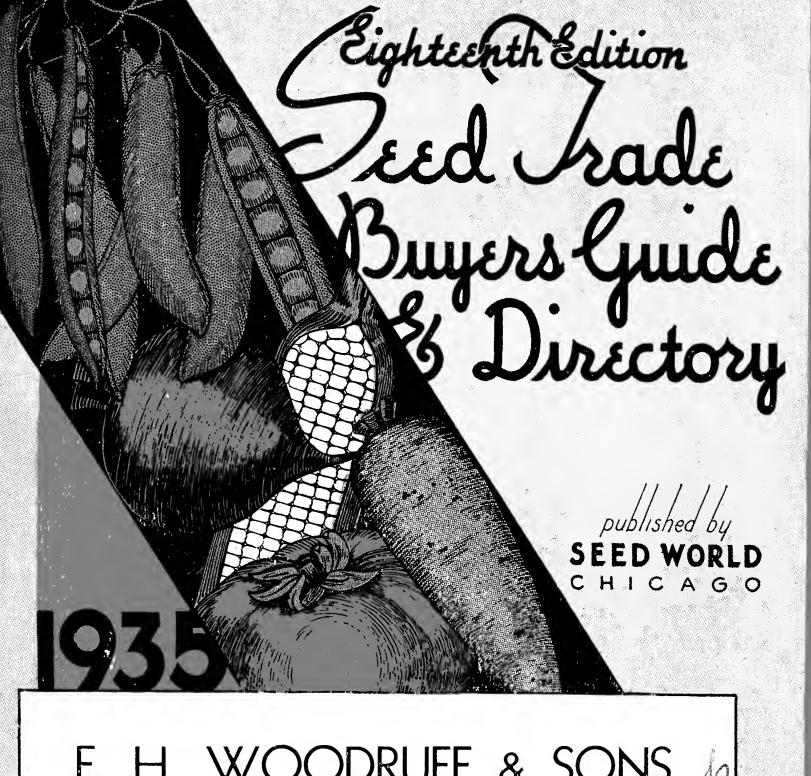
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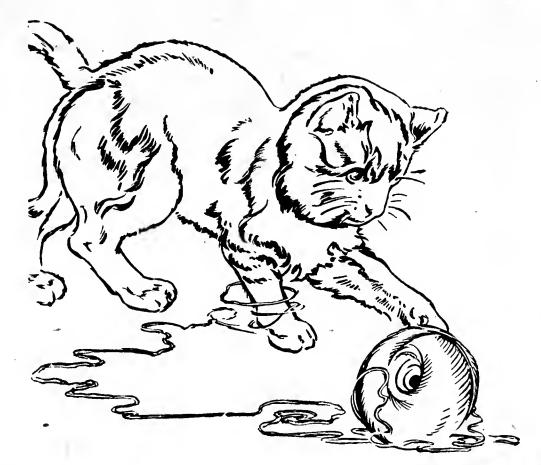
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#### Seed rade Buyer's Guide

Registered U. S. Patent Office

#### For 1935

Compiled and Published to Promote Better Business for Seed Merchants Everywhere.

Containing Classified Listings of Seed Growers, Wholesalers, Manufacturers of Equipment, Supplies and Side-Line Merchandise.

Containing an Alphabetical List of Trade Marks and Slogans Used by Seedsmen and Manufacturers of Allied Lines

Containing Summary of State Seed Laws, Tables of Seed Exports and Imports, Tariff Rates, Planting and Spraying Tables, Information on Sidelines and Other Data of Interest to the Seed Trade. For Index Refer to Page 4.

It has been the endeavor of the publishers to limit the listings to actual growers, wholesalers or manufacturers who are generally recognized in the trade as being privileged to such classification. For index refer to page 4.

The publication of this book is made possible through the support of the advertisers whose names appear in bold face type in the directory section.

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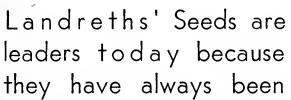


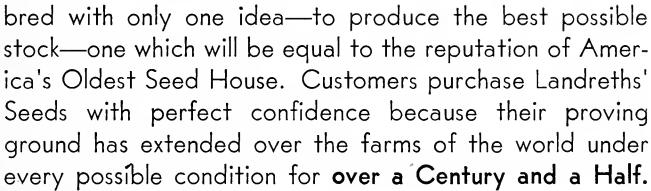
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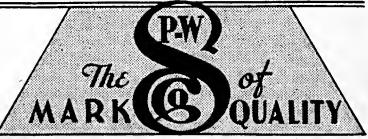
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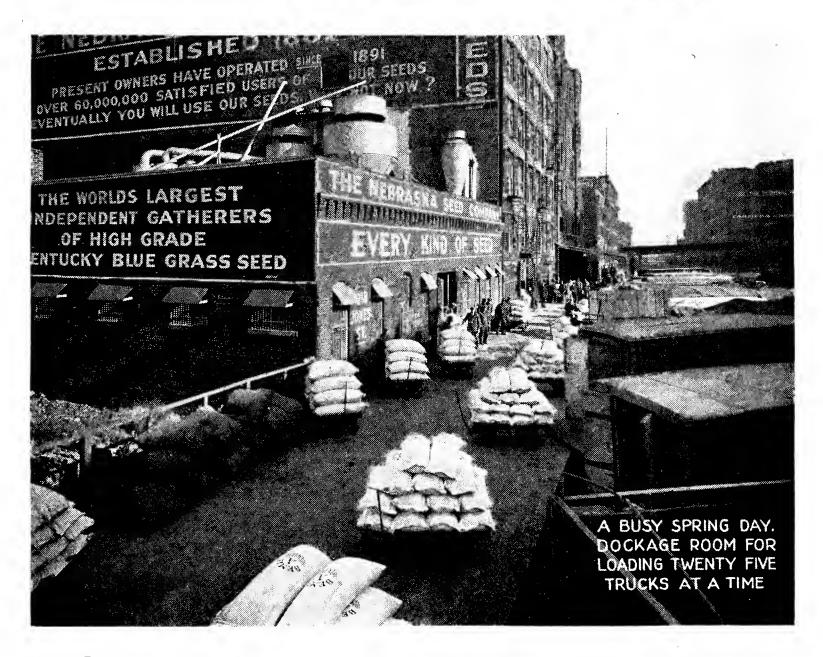
# Summary of Requirements in Various State Seed Laws for the Labeling of Garden and Field Seeds

(This Summary prepared by Macy Spracher, Seed Analyst, Northrup, King & Co., Minneapolis, Minn.) (Detailed field seed labeling requirements on page 14.)

					F	
	Vegetable Seeds	Special Requirements or Regulations for Both Field and Garden Seeds	Flower Seeds	License or Tax	lest ree for Out-of-State Individuals	Address—Laboratory
Alabama	5 Lb.—Tag same as field seeds. No small packet regulations.	Send copy of invoice of each sale to Dept. of Agriculture.  Hard seeds not to be included in % germ. Give bushel weight on tag. Germination	No	None	50e	Seed Lab., Dept. of Agriculture, Montgomery, Ala.
Arkansas	Does not apply.	not over 20% below their standard.	No	None	Fee	Com. of Mines, Manufacture & Agriculture, Little
Arizona	Does not apply.		No	None	Pur. 25c plus	nock, Ark. University of Arizona, College of Agriculture,
California	Field peas and beans as agriculture seeds. Flower, sugar beet and garden and vegetable	Hard seeds must not be included in % germination.	No	None	Germ. 23c Pur. \$1-\$5.00 Germ. 50c-	Tucson, Ariz. Federal State Laboratory, State Office Bldg., Sacramento, Calif.
Colorado	seeds excluded.  Does not apply except to vine seeds.  Must be tagged—name of seed, seller and	7 point type minimum on label. Tolerance germination 10%; Purity 2%. Hard seeds not to be included in % ger-	No	None	\$1.00	Colorado Seed Laboratory, Fort Collins, Colo.
Connecticut	where grown. Does not apply.	mination.	No	None		Com. of Agriculture, % Com. Agri. Expt. Sta-
Delaware	Canning house pea.		$^{ m No}$	None	Pur. 25c, Germ.	uon, new naven, conn. State Seed Laboratory, Dover, Del.
Florida Georgia Idaho	No seed law. No seed law. Does not apply.		No.	None	Pur. 25c, Germ.	Purc Seed Laboratory, Boise, Idaho.
Indiana	1 lb.—as field seeds.	Hard seeds not to be included in % germina-	No	Buy Indiana tags	25c	Federal State Laboratory, Purdue Univ. Agri.
Illinois	Does not apply.	tion. Hard seed must not be included in % ger-	No	None	Pur. 50c- \$5.00,	Expt. Station, Latayette, Ind. Division of Seed Investigation, Seed Lab.—Room
Iowa	Does not apply.	mination.  Label not less than 8 point heavy gothic caps.  Quantity in weight measure or count. Small	No	None	Germ. 306	11, Centennial Blog., Springheld, 111.  Iowa State Inspection Dept., Dept. Agri., Des Moines, Iowa.
Kansas	Does not apply.	packages exempt. Hard seed must not be included in % ger-	No	None		Seed Laboratory, Iowa State College, Ames, Iowa. Seed Laboratory, Manhattan, Kansas.
		Seed may be sold as "Untested (agricultural) Seed" provided no seed, except Kentucky and Canada bluegrass, has germination less				
Kentucky	1 lb.—as field seeds.	лап эυ <i>⁄o</i> .	$N_0$	Buy Kentucky tags	Pur. \$3.00, Germ.	Dept. of Entomology & Botany, Agri. College,
Louisiana	Agricultural seed defined as "cultivated			None	Fee	Louisiana Seed Laboratory—Box 951, Baton Boxes 1.0
Maine Maryland	Does not apply.	Tag of original seller not to remain on bag over 3 months. Hard seed must not be included in % ger-	No o	None None	Pur. 50c-\$5.00 Germ. 50c	Seed Laboratory, Agri. Expt. Sta., Orono, Maine. Seed Laboratory, College Park, Md.
Massachusetts,	10 lbs. or more as field seeds.  Every lot—kind and variety of seed, also name and address of vendor.	mination.	No	None	Pur. 50c-\$1.25 and up Germ. 30c-50c	Seed Laboratory, Agri. Expt. Station, Amherst Mass.

Reference

### field seeds



#### Car Lot Shippers

SWEET CLOVER RED CLOVER ALFALFA SUDAN MILLET

FULL LINE of GARDEN SEEDS CANE
AND ALL
OTHER
FIELD
SEEDS
SWEET CORN

## THE NEBRASKA SEED CO. O M A H A , N E B R A S K A

# Summary of Requirements in Various State Seed Laws for the Labeling of Garden and Field Seeds—Continued

	Vegetable Seeds	Special Requirements or Regulations for Both Field and Garden Seeds	Flower Seeds	License or Tax	Test Fee for Out-of-State Individuals	Address—Laboratory
Michigan	Does not apply.	Hard seeds must not be included in % ger-	No	None		State Seed Laboratory, Dept. Agri., Lansing,
Minnesota	Sugar beets and mangels labeled as field	Label in not smaller than 8 point gothic	No	None	Pur. 25c-\$2.00,	Mich. (Seed Laboratory, University Farm, St. Paul,
	• • • • • • • • • • • • • • • • • • • •	1/2 the % of hard seeds may be included in the % of germination.			Germ: 200	Enforcement Dept. of Agriculture, State Office Bldg., St. Paul, Minn.
		"Grimm Alfalfa" in lots of 30 lbs. or more must be sealed by state where grown.	1			
Missouri	Does not apply.  Kind and variety.  Year for which packeted.	10 point type for year vegetable was pack- eted.	o o N	None None		Dept. of Agriculture, Jackson, Miss. Federal State Laboratory, Columbia, Mo. Enforcement State Board of Agriculture, Jeffer-
Montana	Does not apply.	Hard seeds must not be included in % ger-	No	None	4.49.40.4	Son City, Mo. State Grain and Seed Laboratory, Bozeman,
Nebraska	Does not apply.	Hard seeds must not be included in % ger- minetion	No	None	Pur. 50c-\$2.00,	Mont. Seed Laboratory, Dept. of Agriculture, Lincoln,
Nevada	1 lb.—labeled as field seeds.	Name of each discernible disease and % seeds infected.	No	None	Germ. 20c	Nebr. State Board of Stock Commissioners, Reno, Nevada.
New Hampshire	Ë	Actual bushel weight of field seeds.	Mark year	None		Seed Laboratory, Agricultural Experiment Sta-
	Garden seed and flower seed in tied or sealed		tested	,		tion, Durham, N. H. Enforcement Commissioner of Agriculture, Con-
New Jersey	1 lb.—name, % germination, date tested. % of inert if over 5%.	Seed worthless as seed or for feed, or seed carrying over 1 noxious weed in every 5 grams is forfeited to state.	No	None		State Seed Laboratory, New Jersey Agricultural Experiment Station, New Brunswick, N. J.
New Mexico	Does not apply.	8 point heavy gothic caps for label.	No	None		Agricultural Experiment Station, State College, N. Mex.
New York	Each lot labeled % germination. Date of test.	Vegetable label not less than 10 point type.	No	None		State Seed Laboratory, Agricultural Experiment Station, Geneva, N. Y. Enforcement Commissioner of Agriculture, Al-
North Carolina	Must be true to variety as named.	Commissioner of Agriculture may remove poor seed even if correctly labeled.	No	\$25.00. 10 lb. or more retailed to farmer must have tag	Pur. 25c, Germ. 25c.	Seed Laboratory, Department of Agriculture, Raleigh, N. Car.
North Dakota	Does not apply to less than 5 lbs.		Over 5 lhs.	Commissioner of Agriculture.	Pur \$150 Germ	Sand Laboratory Amignitural Evnaniment Sta-
Ohio	Sweet corn, cabbage, peas or beans are "agriculture seeds"—label as field seeds.	Do not allow variation over 10% in germination.	No	\$5.00 annually for each separate	\$1.00	tion, College Station, Fargo, N. Dak. State Seed Laboratory, Department of Agriculture, Columbus, Ohio.
Oklahoma	Any vegetable grown in Oklahoms on field scale considered as agriculture seed—label as field seeds.		No	place of business. None	Pur. and Germ. 50c, Singly 30c	State Seed Laboratory, State Board of Agriculture, Oklahoma City, Okla.
Oregon	1 lb.—label purity and germination.		-1 lb.	None	Pur. 25c, Germ. 25c.	Federal State Laboratory, Agricultural Experiment Station, Corvallis, Ore.

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## Citied J. Brown. Seed Company

Growers of GARDEN PEAS
AND BEANS

for The Wholesale American

and Export Trade

We have carefully chosen and developed strains of unusual merit.

Our strain of Laxton Progress grown from single vine and pod selection.

It costs no more to grow or handle the best. Write for growing contracts and surplus offers.



ALFRED J. BROWN SEED O.
GRAND RAPIDS MICHIGAN

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Pormsytvania Front labeling from the being defined in law but excluded helped by the being defined in law but excluded helped by the being defined in law but excluded helped by the being defined in law but excluded a fine and address of vendor.  South Dakota Does not apply.  Feruses Does not apply.  Does not apply.  Correct weight.  Correct			Vegetable Seeds	Special Requirements or Regulations for Both Field and Garden Seeds	Flower Seeds	License or Tax	Test Fee for Out-of-State Individuals	Address—Laboratory
South Dakota Does not apply.  Texas  Applies only to onion and spinach.  Texas  Texas  Applies only to onion and spinach.  Texas  Texa		Pennsylvania Rhode Island South Carolina	1		No	None None \$1-\$25 license. \$25 per annum reg-		State Laboratory, Bureau of Plant Industry, Department of Agriculture, Harrisburg, Pa. Bureau of Markets, Providence, R. I. Seed Laboratory, Department of Agriculture, Columbia, S. Car.
Applies only to onion and spinach.  Label as field seeds.  Label as field seeds.  Label as field seeds.  Label as field seeds.  Label seeds.  Seeds in small packages or from bulk in small purition requested on the lot offered for sale.  Label seeds.  Seeds in small peckages or from bulk in small amounts may be example.  To sale.  Seeds in small amounts may be example provided on the low standard.  Every separated container marked "Packed Hard seeds must not be included in % gen-mination if below standard.  Does not apply.  Does not apply.  Does not apply.  Does not apply.  To holibit as the tre to variety as labeled.  Does not apply.  Label "Way, etc. meet infested seed—wearl, and seeds must not be included in % gen-mination if 5% below standard.  Does not apply.  No literate to variety as labeled.  Prohibit as let fines than 5% standard.  Prohibit and seeds must not be included in % gen-  So below standard.  Does not apply.  Does not apply.  No literate to variety as labeled.  Prohibit and seeds nust not be included in % gen-  So germination if 5% below standard.  Every lot.  Mark be true to variety as labeled.  Every lot.  To registrate to variety as labeled.  By an included as "Arriculture Seed."  Hard seeds nust not be included in contract to the seed that where grown.  To registrate the seeds nust not be abled only in contract the seeds nust not be abled only in contract the seeds.  Label as field seeds.  Label as field seeds.  So below standard.  The seeds nust not be included in contract the seeds nust not be not do not in the seeds nust not be not apply to the number of state where grown.  The seeds nust not be not do not not seed.  Does not apply to the number of state where grown.		, South Dakota Tennessee	Does not apply.  Does not apply.	Corn must be tagged % germination, variety and county and state where grown.	N oN	ness. None Inspection Tax		Seed Laboratory, Agricultural Experiment Station, Brookings, S. Dak. Seed Laboratory, Department of Agriculture,
Utab Included as "Agriculture Seeds."  Seeds in small packages or from bulk in No None Included as "Agriculture Seeds."  Seeds in small amounts may be evently provided container marked "Packed Hard seeds must not be included in % gernmation if below standard.  Permy separated container marked "Packed Hard seeds must not be included in % gernmation if below standard.  Seeds in small amounts may be even to processed or seed is labeled.  None Table "Wixed cowpeas" or "Mixed soy.  Label "Worker Virginia Included as "Agriculture Seeds."  Does not apply.  West Virginia Included as "Agriculture Seeds."  West Virginia Included as "Agriculture Seeds."  Wyoming Inb or over.  Wyoming Included as "Agriculture Seed."  Woming Included as "Agriculture Seed."  Woming Included as "Agriculture Seed."  Every lot.  Wyoming Included as "Agriculture Seed."  Woming Included as "Agriculture Seed."  Every lot.  By on the included in % germination if 5% below standard.  Chiman Allia" can be sold only in containers seeded by agents of state where grown.  By on the included as "Agriculture Seed."  Every lot.  By on the included in % germination if 5% below standard.  Chiman Allia" can be sold only in containers seeded.  Every lot.  By on the included in % germination if 5% below standard.  Chiman Allia" can be sold only in containers seeded.  Every lot.  By on the included in % germination if 5% below standard.  Chiman Allia" can be sold only in containers seeded.  Every lot.  By on the included in % germination if 5% below standard.  Chiman Allia" can be sold only in containers seeded.  Every lot.  By one or egermination if 5% below standard.  Chiman Allia" can be sold only in containers seeded.  Every lot.  Every lot.  By one or egermination if sold in force in the included in % germination in the seed.  By one or egermination in the seed.  Every lot.  Every lot.  By one or egermination in the seed.  By one or egermination in the seed.  By one or egermination in the seed.  Every lot.  By one or egermination in the seed.  By one or egerm		Texas	Applies only to onion and spinach. Label as field seeds.	Correct weight.  Before sale vendor must file with Commissioner of Agriculture a certified copy of information requested on the lot offered		stamps 2c per bu. Buy tags 10-150 lbs. 1c; 150-200 lbs. 2c	Pur. 25c, Germ. 25c.	Nashville, Tenn. State Seed Laboratory, Department of Agriculture, Austin, Texas.
Virginia Every separated container marked "Packed Hombiated to perfect and year."  Por" and year.  Por" and year.  Por" and year.  Por" and year.  Por and year.  Por and year.  Label "Wixed cowpeas" or "stybeans" if 90% to bear year bears if less than 90% of one variety if it is 90% to ne variety. Label "wixed seeds must be true to variety as labeled.  Must be true to variety as labeled.  Mest Virginia Included as "Agriculture Seeds."  Every lot.  Every lot.  Every lot.  Every lot.  Wooming 11b. or over.  Wyoming 11b. or over.  Included as "Agriculture Seed."  Wyoming 11b. or over.  Included as "Agriculture Seed."  Included as "Agriculture Seed."  Wyoming 11b. or over.  Included as "Agriculture Seed."  Included as "A		Utah	Included as "Agriculture Seeds." Label as field seeds.	tor sale. Seeds in small packages or from bulk in small amounts may be exempt provided	$N_0$	None		State Seed Laboratory, State Board of Agriculture, Salt Lake City, Utah.
Vermont         Does not apply.         No stability all of license fee for mixed or unmixed seeds.         No stability all of license fee for mixed or unmixed seeds.         No stability all of license fee for mixed or unmixed seeds.         So for for each brand for each brand for each brand for each brand for each gran.         No stability all of or over.         \$5.00 for registration or registration.         \$5.00 for registration or registration.         \$5.00 for registration each brand for each sample.         \$5.00 for registration ergistration each brand for each brand and variety of agriculture seeds.         \$5.00 for registration ergistration each brand for each brand for each brind and variety of agriculture or vegetamination if \$% below standard.         Hard seeds must not be included in % germination if \$% below standard.         No each sample.         Pur, and Germ.           Wyoming         11b. or over.         11b. or over.         No         25c. each sample.		Virginia	d "Packe	container of packages or seed is labeled. Hard seeds must not be included in % germination.  Label "Mixed cowpeas" or "Mixed soybeans" if less than 90% of one variety.  Label "cowpeas" or "soybeans" if 90% to 98% one variety.		None	0	
West Virginia Included as "Agriculture Seeds."  Included as "Agriculture Seeds."  Wisconsin Every lot.  Wyoming I lb. or over.  Wyoming I ladd as "Agriculture Seed."  West Virginia Included as "Agriculture Seed."  West Virginia Included as "Agriculture Seeds."  No \$5.00 for registration certificate for each kind and variety of agriculture or vegetable seed.  Who ming I lb. or over.  Included as "Agriculture Seed."  No \$5.00 for registration certificate for each kind and variety of agriculture or vegetable seed.  No \$5.00 for registration certificate for each kind and variety of agriculture or vegetable seed.  No \$5.00 for registration certificate for each kind and variety of agriculture or vegetable seed.  No \$5.00 for registration certificate for each kind and variety of agriculture or vegetable seed.  No \$5.00 for registration certificate for each kind and variety of agriculture or vegetable seed.  No \$5.00 for registration certificate for each kind and variety of agriculture or vegetable seed.  No \$5.00 for registration certificate for each kind and variety of agriculture or vegetable seed.  No \$5.00 for registration certificate for each kind and variety of agriculture or vegetable seed.  No \$5.00 for registration certificate for each kind and variety of agriculture or vegetable seed.  No \$5.00 for each kind and variety of agriculture for each sample.		Vermont Washington		No license fee for mixed or unmixed seeds used solely for lawn and golf courses. Prohibit sale of insect infested seed—weevil, chalcifly, etc. Prohibit any sale any seed except medical herbs and flowers if less than 60% germi-		\$5.00 for each brand for each year. \$10.00 per year.		Seed Laboratory, State Board of Agricultune, Burlington, Vt. Seed Laboratory, Agricultural Experiment Station, Pullman, Wash. Enforcement Department of Agriculture, Olympia, Wash.
Wisconsin Every lot.  Wisconsin Every lot.  Wisconsin Every lot.  Wisconsin Ferry lot.  Wyoming I lb. or over.  Wyoming Label as field seeds.  Wisconsin Every lot.  Wisconsin Ferry lot.  Woming That seeds must not be included in % germans and Germ.  Wome Agriculture Seed  Wisconsin For over.  Wome None Pur. and Germ.  25c, Singly 15c  grown.  No 25c, each sample.	/	West Virginia	Included as "Agriculture Seeds." Label as field seeds.	nation.	N <sub>o</sub>	\$5.00 for registration certificate for each kind and variety of agriculture or vege-		Seed Laboratory, Department of Agriculture, Charleston, W. Va.
1 lb. or over. Included as "Agriculture Seed."  Label as field seeds.		Wisconsin	Every lot. % germination if 5% below standard.	Hard seeds must not be included in % germination. "Grimm Alfalfa" can be sold only in containers sealed by agents of state where	No	vable seed. None	Pur. and Germ. 25c, Singly 15c	Seed Laboratory, Department of Agriculture, Agronomy Bldg., Madison, Wis.
		Wyoming	1 lb. or over. Included as "Agriculture Seed." Label as field seeds.	grown.	No		25c. each sample.	Department of Agronomy, Agricultural Experiment Station, Laramie, Wyo.

#### TIMOTHY CLOVER

and all kinds of

#### FIELD SEEDS

POP CORN

Buyers and Sellers Carlots or Less



CRAVER-DICKINSON SEED COMPANY

**BUFFALO** 

**NEW YORK** 

#### ED. F. MANGELSDORF & RRO.

WHOLESALE FIELD SEEDS

ST. LOUIS, MO.

Cable Address: EMBRO-St. Louis

Recleaners—First Hand

A primary source for a wide variety of staple farm and grass seeds.



\*Alfalfa \*Red Clover Sweet Clover Lespedeza Other Clovers Lawn Grass

Red Top Timothy
Meadow Fescue Ky. Blue Grass Orchard Grass Bermuda Grass Other Grasses Seed Corn

Soybeans Cowpeas Sudan Grass Cane Millets Sunflower Other Grains Ensilage Corn

\*U. S. Verified Origin

CAR LOTS—BAG LOTS

BUYERS—SELLERS—EXPORTERS

## Every Progressive Farmer knows genuine



STATE SEALED AND CERTIFIED REGISTERED

STEP IN ADVANCE use

BLACKFOOT BRAND

Idaho Grimm Alfalfa Seed Growers' Ass'n Blackfoot, Idaho

Special Mixtures or Grass Key to Symbols and Abbreviations on page 17. Field Seeds, Mixed Field Seeds and Lawn

Name and number Lb. (P. 1 in 10,-000 seeds.) primary N. sec-N. Lb. B. (P. twice this allowance.) N. B. (P. as in field seeds.) MIXTURE (P. as in field seeds.) Noxious Weeds (See Page 18) N. B. N. Lb. B. noxious. ondary. N. Oz. B. SPECIAL Ä. MIXTURE OR SPECI Label Requirements sec-. Тимоть Стоwи Прете Стоwи Exempt except noxious weed tions of law. : % Germ. & Date Teated × Same as mixed field seeds. % Other Crop Seeds : : : See mixed field seeds.

X X X X × × % Inert Matter × sbeed Seeds × × As field seeds. GRASS  $\bowtie$  : × × % Each Over 5% ×  $\times$ XX × × × Name Each Over 5% LAWN Every Lot Every Lot Every Lot 8 oz. 8 oz. 8 oz. 8 oz. Weight to be Labeled Lb. B. (P. twice N. Oz. B. (P. as in field seeds.) N. B. (P. as in field seeds.) N. Lb. B. primary (P. certain noxious. N. secondary noxious. Noxious Weeds (See Page 18) this allowance.)
B. (P. certs Oz. B. weeds.) N. Lb. MIXED FIELD SEEDS (Sometimes limited to 2 kinds) Yr. Exempt except noxious weed sections **М**реге **Grown** Label Requirements % Germ. & Date Tested × X × X % Other Crop Seeds % Inert Matter sbeed Seeds × × × × As field seeds % Евср Олет 5% × × × of law. Name Each Over 5% × X 5 lbs: lbs. Every Lot Every ame each. (Pri- 10 lbs. mary noxious P. 1-5, 25, 100 gms.)  $^{1}$ lbs. lb. Weight to be Labeled N. Oz. A. (P. 1-1000 Fineds) (P. Sorrel 1-500 seeds) (P. Lb. A. (P. twice (P. certain N. Lb. A. Primary N. Lb. (P. 1-10,000 seeds.) noxious. secondary nox-Noxious Weeds (See Page 18) this allowance.) N. Lb. 1-5 gms. Name each. Oz. A. N. Oz. A. weeds.) Year Grown × ×  $X^*$ × × × Маете Стомп × FIELD SEEDS
Label Requirements % Germ. & Date Tested X % Other Crop Seeds % Inert Matter No seed law. sbeed Seeds × X × % Pure Seed × K Every Every 10 lbs. Every 10 lbs. 5 lbs. 10 lbs. 5 lbs. 16. Lot Weight to be Labeled 1927 Connecticut 1921 California 1933 Date of Last Amendment or Regulation Delaware Colorado Arkansas Mabama Indiana 1921 Georgia Florida **Ariz**ona Illinois Iowa 1934 1929 1931 921

Reference Section Index-

	10 lbs.)																						-	
1929		×	:	:	:	×	× :	If over 1/10 of 1% give 10 lbs.	10 lbs.	×	×	:	:	×	×	As for unmixed field		Same	Same as mixed field seeds.	ed fiel	ld see	ds.		
		1						each. (P. certain weeds.)																
Kentucky 1932.	1 lb.	×	×	:	:	×	:	Z	1 15.	×	×	×	: :	×	×	N. Oz.	1 lb.	×	:	×	: M	:	:	N. Oz. (5 lbs. or less exempt from nox. weed sections.)
Louisiana 1934	10 lbs.	×	×	:	:	×	×	N. Oz. A.	10 lbs.	×	×	×	: :	×	XX.	N. Oz. B.	8 oz.	Ж		X	: •	:	×	N. Oz. B.
Maine 1919	Every	×	:	:	:	×	:	N. Lb.								,		· · · · · · · · · · · · · · · · · · ·				_		
Maryland 1927	10 lbs.	×	×	:	:	×	•	N. A.	10 lbs.	×	×	×	:	X	:	N. B.	8 oz.	× .		X	: M	:	<u>z</u> :	N. B.
Massachusetts 1927	10 lbs.	×	×	:	•	×	:	N. Oz. A.	10 lbs.	×	×	×	: :	×	:	N. 0z. B.	Every	×	:	x	: Ы	:	: :	N. Oz. B.
Michigan 1923	1 lb.	×	×	×	×	×	: :	N. A.	1 lb.	×	×	×	X	×	X	N. Lb.	8 oz.	×	X	×	×	×	<u>z</u> :	N. Lb.
Minnesota 1934	1 lb.	×	$_{ m P2\%}^{ m X}$	:	:	×	: ×	N. Lb. if between 10- 90 per lb. Under 10 per lb. called	1 lb.	×	×	$_{ m P2\%}^{ m X}$	: :	×	×	As for unmixed field seeds.	8 oz.	×	X X P2%	X %	: !/	×	:	As field seeds except that for lawn mixtures the number is not required.
Mississippi 1924	5 lbs.	×	×	:	:	×	:	per 1b.)	5 lbs.	×	×	×	:	X	:	z. ÿ.	5 lbs.	×	:	X	:	:	<u>z</u> :	N. B.
	10 lbs.	×	×	:	:	×	: X	N. A. (P. Canada 10 lbs. Thistle.)	10 lbs.	×	×	×	× :	×	:	N. B.	8 oz.	×	X	X	; !J	:	<u>z</u> :	N. B.
Montana 1929	1 lb.	×	×	×	:	×	:	N. Oz. A.	1 lb.	×	×	×	:	×	:	N. Oz. B.		As mix	As mixed field seeds.	pas p	is.			
Nebraska 1921	10 lbs.	×	×	:	:	×	: *X	N. Oz. A. (P. Canada 10 lbs. Thistle 1 in 5 gms., label less quantity.)	10 lbs.	×	× .	×	: :	×		X* N. Oz. B. (P. as in field seeds.)	4 oz.	, · ×	: - :	×	; ы	:	* *	X* N. Oz. B.—P as in field seeds.
Nevada 1929	1 lb.	:⋈	××	<b>×</b> :	<b>X</b> :	XX	(law) (reg.)	N. A.	1 lb.	×	×	×	× :	×	:	N. B.	1 lb.	×	X	X	: !.a	×	:	N. B.
New Hampshire 1921	1 lb.	×	:	:	:	×	:	. None																
New Jersey 1931	10 lbs.	×	:	:	:	×	:	. N. Lb. 1 in 5 gms.	Every	×	•	×	: ×	:	:	N. Lb. 1-5 gms.		As min	As mixed field seeds.	d seed	ls.		<del></del>	
New Mexico 1919	1 lb.	:	×	×	×	×	× .	% by weight of each.																
New York 1934	Every Lot	×	×	:	:	×	: :	. N. Lb. A.	Every	×	×	×	: :	×	•	N. Lb. B.	Every	×	X	×	:	×	<u>z</u>	N. Lb. B.
North Carolina 1931	Every	×	×		×	×	×	. % each.	Every	×	:	×	X			% each.		See mi	See mixed field seeds.	ld see	ds.			

Advertisers Index-Page 180

Field Seeds, Mixed Field Seeds and Lawn Grass or Special Mixtures (Continued)

MIXTURE	Noxious Weeds (See Page 18)				,	X* N. Oz. B. (P. as field seeds.)		e.			
	Noxio (See.	N. Lb. B.	В.			Oz. B seeds.)	N. Oz. B			0.0	
SPECIAL ents	Марете Grown	х *х	N. B.			*> ×	ż		•		
	% Germ. & Date Tested	\\ \tag{\chi}					•	are ture.		sture sec-	
E OR	% Other Crop Seeds	:	:			•	•	tions rricul	:	or pasture m weed sec-	
TUR el Re	% Inert Matter	×	×	eds.		×	×	egula of Ag	:	rn ol from	eds.
MIXTURE Label Req	% Meed Seeds	×	X	See mixed field seeds.	œ	×	×	cempt until regulations are made by Dep't of Agriculture.	:	Mixtures for lawn or pasture exempt except from weed sections of law.	See mixed field seeds.
	% Each Over 5%			ked fi	As field seeds.	•		t un e by I	•	ixtures for exempt exceltions of law.	ced fi
GRASS	Name Each Over 5%	X		e mi	s field	¼	× .	Exempt made l	×	ixtur exem tions	e mix
		l .		<u> </u>	Y. YE			戽		×	<u> </u>
LAWN	Weight to be Labeled	Every Lot	8 oz.			8 oz.	Every				
	ds 3)					as in					
	Noxious Weeds (See Page 18)					. •					
	xious ee Pa	). B.				. Oz. B. (P field seeds.)	, B.				
3	on Na	X* N. Lb. B.	N.B.	N. B.		N. O. field	N. 0z. B.				N. A.
3DS kinds	п Мот В этэй М	**	:	×		X* N.	:		:		:
MIXED FIELD SEEDS (Sometimes limited to 2 kinds) Label Requirements	% Germ. & Date Tested	×	X	×		×	×		:	field seeds.	×
TELD imited quirem	% Other Crop Seeds	:	:	:		:	:		:	field	:
D Fines lin	% Inert Matter	:	:	×		:	:		:	se a <b>s</b>	×
MIXED ometimes Label I	speed beew %	×	X	X		$_{ m P3\%}^{ m X}$	×		:	herwi	×
N (Sor	% Esch Over 5%	×	X	×		X	×		:	X Otherwise as	:
	Name Each Over 5%	×	×	×		×	×		×	×	×
		l sic	bs.	t t					lb.	<del>i</del>	ps.
	Weight to be Labeled	Every	10 lbs.	Every Lot		10 11	Every		1 1	1/2 bu.	10 lbs.
	(8)				. lin 500 lin 5000 lin 20000	Dodder 10 lbs. Thistle		20 in (P. if		in 5 any John-	
	Noxious Weeds (See Page 18)				. 1 in 1 in 5	P. Di da T s.)					
	xious	). Aa	ch A		(a) (P seeds.) (b) (P. seeds.) (c) (P. (c) (P. seeds.)	& Canada lin5gms.)	z. A.	if less than 1,000 seeds, over.)	a <sup>*</sup>	( a 2	
	N SS	N. Lb. Aa	N. each A	N. A.	N.(a) () seeds.) (b) (P seeds.) (c) (P (c) (P	N. Oz. A. (P. & Canada 1 in 5 gms.)	N. Oz. A	N. if les 1,000 over.)	Name.	Name. (gms.). Gmion son gra	N. A.
	Year Grown	:	:	:	•	:	;	:	•		**
	Мреге Стоwп	**	**	X	×	$\overset{*}{\asymp}$	:	×	:	If below X	⋈.
DS	% Germ. & Date Tested	×	×	×	urd.	×	×	×	×		×
SEEDS	% Other Crop Seeds	:	:	:	standard. rd give $f$ $\sim X$	:	:	:	x X (38.)	ldard.	×
FIELD SEEDS Label Requirements	% Inert Matter	:	:	:	eled standard $\int If$	:	:	If be-	X puritie	$egin{align*}  ext{``Standard.''} \  ext{label} \  ext{$\int X \ 10\%$} \end{aligned}$	×
FI Labe	speeg pee M %	$  \times  $	×	×	be labe ow star $\left\{egin{array}{l} \mathbf{If} \\ 2\% \end{array}\right\}$	$_{ m P3\%}^{ m X}$	×	$\operatorname{If}_{2\%}\}$	X % imp	<del></del>	×
	% Pure Seed	×	×	X	May be labeled st If below standard $\int\limits_{X}^{X} \prod_{k=1}^{K} \int\limits_{X}^{X} \prod_{k=1}^{K} X$	X	×	× ·	X X X X (P. 10% impurities.)	May label standard la X / If \{ 2%	×
	Weight to be Labeled	Every	10 lbs.	Every Lot		10 lbs.	Every Lot	1 lb.	1 lb.	1/2 bu. 18	10 lbs.
	Inste of Last Amendment from the noiselv and t	North Dakota 1931	Ohio 1090	homa		Pennsylvania 1921	Rhode Island 1929	South Carolina 1922	South Dakota 1925	Tennessce 1925	Texas

Directory Section Index-Page 4

Every X X X X* N. Group I Lb.  8 oz. X X X X N. Group II.b.  8 oz. P3% X N. Oz. (P Dodder 2 in 5 gms.).  Every X X X X X* N. Oz. A.  Lot See mixed field seeds.	N. Oz. B. (P. as in field seeds.)	ections	
Every X X X X N. Group I Lb. (P. Group II.)  8 oz. X X X X N. Oz. (P Dode in 5 grs.).  Every X X X X X* N. Oz. A. Lot See mixed field seeds.	X X X P3%	Exempt except from weed sections of law.	
	X N. Oz. B. (P. as in Every field seeds.)		
': : : : : : : : : : : : : : : : : : :	:	$X \left( \text{ If } \right) \left( \text{ If } \right) \dots X X^* \dots P. 1 \text{ in } 3,000 \text{ seeds,} 1 \text{ lb.} X X \text{ Otherwise as unmixed field } Seeds.$ $\begin{cases} \text{Over} \\ 2\% \\ 2\% \\ 2\% \end{cases} $ $\begin{cases} \text{Seeds.} \\ \text{Seeds.} \end{cases}$ $\begin{cases} \text{Seeds.} \\ \text{Seeds.} \end{cases}$ $\begin{cases} \text{Seeds.} \\ \text{Seeds.} \end{cases}$	Every X Otherwise as unmixed field seeds.
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	N. Oz. A. (P. certain Every weeds if over 1 in 5 Lot gms)	P. 1 in 3,000 seeds, 1 lb. P. Buckhorn 1 in 1,000 seeds, name if fewer.	ď
$\vdots \\ \vdots \\ \begin{bmatrix} I\mathbf{f} \\ 12\% \end{bmatrix}$	Every X X X N.Oz. A. (P. certain Every X X X P3% weeds if over 1 in 5 Lot P3%	$\left\{ \begin{array}{c} \text{If } \\ \{\text{Over} \\ 2\% \} \{2\% \} \end{array} \right\} \dots  \text{X}  \text{X}^* \dots$	V X X
$\begin{bmatrix} \text{Every} \\ \text{Lot} \\ 10 \text{ lbs.} \end{bmatrix} \times \begin{array}{c} X \\ X \\ P3\% \\ 1 \text{ lb.} \\ X \\ X \\ X \end{bmatrix}$	Every Dot	1 lb.	$egin{array}{ c c c c c c c c c c c c c c c c c c c$
Utah 1933 Virginia 1934 Vermont 1926 Washington 1923	West Virginia 1926	Wisconsin 1931	Wyoming 1929

## Key to Symbols and Abbreviations Used in Summary of State Seed Laws

P.—Prohibited.

N.—Name.

X.—Required on Seed Label.

Oz.—Give the approximate number per oz.

Lb.—Give the approximate number per lb.

A.—Name the noxious weeds which are present singly or collectively as follows:

- (1) In excess of one seed in each 5 grams of timothy, redtop, Kentucky or Canada bluegrass, fescues, brome grass, rye grasses, clovers, alfalfa, etc.
- (2) One in 25 grams of millets, rape, flax, sudan.
- (3) One in 100 grams of wheat, oats, rye, barley, buckwheat, vetches and other seeds as large or

A<sub>a</sub>.—In North Dakota (1) In excess of one seed in 20 grams.

- (2) In ercess of one seed in 50 grams.
- (3) In excess of one seed in 100 grams.
- B.-Name the noxious weeds which are present singly or collectively in excess of one in 15 grams.

"-Illinois where grown stated only on corn.

Nebraska where grown stated only on Turkestan and Italian alfalfa and Chilean and Italian

N. Dakota where grown stated only on corn (giving county as well as state) and alfalfa and clovers. Ohio where grown only for alfalfa and red clover.

Pennsylvania where grown stated only on Turkestan and Italian alfalfa and Chilean and Italian

Texas—year in which grown stated only on onion and spinach.

Vermont where grown only on imported alfalfa, red clover and orchard grass.

Virginia where grown only on Turkestan and Italian alfalfa and Italian Chilean red clover.

Wisconsin where grown only on cereal grains, corn, and alfalfa.

This tabulation includes only such label requirements as may vary in the different states. It is presumed that every label will state the full name and address of the vendor and the commonly accepted name of the seed, also if the seed is a mixture, that it shall be labeled a mixture.

For noxious weeds in various states see page 18.

#### NOXIOUS WEED SEEDS

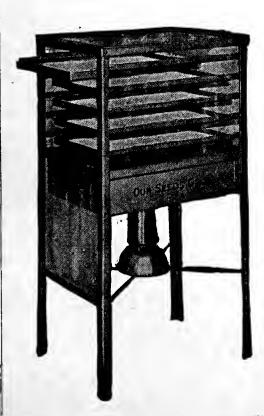
PRACTICALLY all of the State Seed Laws name some noxious weed seeds. The sale of agricultural seed containing any of the noxious weed seeds is prohibited in some of the states. Most states, however, allow a very small percentage to be present. Regulations vary in the different states. A complete summary of all state seed laws may be found on page 8.

Alabama	Wild Onion, Bermuda Grass, Quack Grass, Dodder, Johnson Grass, Nut Grass, Canada Thistle, Hawkweed, Corn Cockle, Chicory.
Arizona	Dodders, Russian Thistle, Johnson Grass, Bermuda Grass, Florida Nut Grass, Wild Mustard, Careless Weed, Wild Oats, Lamb's Quarter, Wild Barley, Rag Weed, Burr Grasses. Prohibit Johnson Grass, Canada Thistle, Russian Thistle, Scotch Thistle, Bull Thistle, Cocklebur, and Burdock. (Nox. weed law of 1913.)
Arkansas	Dodders, Buckhorn, Plantains, Sorrels, Docks, Cheat, Red Rice, Wild Carrot, Wild Onion, Thistle, Nut Grass, Johnson Grass, Whitetop.
California	Primary Noxious: Johnson Grass, Camel's Thorn, Hoary Cress, Morning Glory, Canada Thistle, Russian Knapweed. Secondary Noxious: Yellow Star Thistle, Goat Grass, Coast Dandelion, Russian Thistle, Silver-leaf Nightshade, Creeping Sow Thistle, Klamath Weed, Nut Grass, White or Creeping Mallow, Dodder, Puncture Vine.
Colorado	Dodders, Wild Oats, Plantains, Bindweed, Poverty Weed, Crab Grass, Cheat, Canada Thistle, Cockle, Sow Thistle, Wild Barley, Hopelover, Mustards.
Connecticut	Quack Grass, Canada Thistle, Plantain, Hawkweed, Dodder, Curled Dock.
Delaware	Quack Grass, Canada Thistle, Dodders, Wild Mustard, Wild Oats, Orange Hawkweed.
Idaho	Wild Mustards, Quack Grass, Canada Thistle, Wild Oats, Dodders, Corn Cockle, Plantains, Perennial Sow Thistle, French Weed, Hoary Cress, Wild Morning Glory, Spurge, Puncture Vine, Yellow Toadflax, Russian Knapweed,
Illinois	Canada Thistle, Quack Grass, Wild Mustard, Wild Carrot, Dodder, Dock, Buckhorn Plantain, Ox-eye Daisy, Field Sorrel, Johnson Grass.
Indiana	Buckhorn, Bracted Plantain, Canada Thistle, Chicory, Common Plantain, Corn Cockle, Curled Dock, Dodder, Horse Nettle, Wild Mustard, Ox-eye Daisy, Prickly Lettuce, Quack Grass, Red Sorrel, Whitetop, Wild Carrot, Wild Onion, Yellow Trefoil.
Iowa	Primary Noxious: Quack Grass, Canada Thistle, Perennial Sow Thistle, Perennial Pepper Grass, European Morning Glory, Horse Nettle, Leafy Spurge, Russian Knapweed, Buckhorn. Secondary Noxious: Wild Carrot, Sour Dock, Smooth Dock, Sheep Sorrel, Wild Oats, Wild Mustard, Indian Mustard, Black Mustard, Dodders.
Kansas	Canada Thistle, Corn Cockle, Buckhorn, Mustards, Frenchweed, Quack Grass, Wild Parsnip, Wild Onion Prohibit 1-5 grams Dodder and Johnson Grass. Prohibit 1-100 grams Field Bindweed.
Kentucky	Quack Grass, Dodders, Sorrel, Buckhorn, Corn Cockle, Wild Onion, Canada Thistle.
Louisiana	Johnson Grass, Tie Vine, Cocklebur, Wild Mustards, Crab Grass, Large Docks, Dandelion, Cocoa Grass, Dodder Foxtail, Ox-eye Daisy, Thistle, Bermuda Grass.
Maine	None listed in law itself—large list named in Regulations.
Maryland	Wild Onion, Bermuda Grass, Quack Grass, Dodder, Canada Thistle, Hawkweed, Chicory.
Massachusetts.	Dodder, Quack Grass, Wild Mustard, Canada Thistle.
Michigan	Quack Grass, Dodders, Canada Thistle, Wild Carrot, Mustards.
Minnesota	Quack Grass, Canada Thistle, Perennial Sow Thistle, Dodders, Leafy Spurge, Ox-eye Daisy, Buckhorn Plantain
Mississippi	Wild Onion, Bermuda Grass, Quack Grass, Dodder, Johnson Grass, Nut Grass, Canada Thistle, Hawkweed, Corn Cockle, Chicory.
Missouri	Quack Grass, Dodders, Russian Thistle, Wild Carrot, Sorrels, Docks, Wild Onion, Buckhorn and other varieties of Plantain. Prohibit Canada Thistle.
Montana	Quack Grass, Fan Weed, Wild Oats, Dodder, Canada Thistle, Wild Mustard.
Nebraska	Small Flowered Morning Glory, Wild Mustard, Quack Grass, Wild Oats, Dodders, Canada Thistle.
Nevada	Dodder, Star Thistle, Thistles, Russian Thistle, Hoary Cress, Morning Glory, Johnson Grass, Nut Grass, Creeping Mallow, St. Johnswort, Dandelion, Water Cress, Puncture Vine, Mustards.
New Hampshire	No noxious weeds named.
New Jersey	Canada Thistle, Dodders, Quack Grass, Horse Nettle, Russian Knapweed.
New Mexico	Quack Grass, Fan Weed, Mustard, Wild Oats, Dodder.
New York	Quack Grass, Wild Mustards, Canada Thistle, Dodder, Crab Grasses, Docks.
North Carolina.	Wild Onion or Wild Garlic, Dodder, Wild Oats, Corn Cockle, Cheat.
North Dakota	Quack Grass, Canada Thistle, Perennial Sow Thistle, Dodder, Leafy Spurge, Field Bindweed.

#### NOXIOUS WEED SEEDS—Continued

Ohio	Canada Thistle, Wild Onion, Quack Grass, Dodders, Plantains, Wild Carrot, Ox-eye Daisy, Corn Cockie, Docks, Chicory.
Oklahoma	Dodder, Russian Thistle, Bindweed, Johnson Grass, Canada Thistle, Perennial Bull Nettle.
Oregon	(a) Wild Oats; (b) Wild Mustard and Corn Cockle; (c) Canada Thistle, Dodders, Quack Grass.
Pennsylvania	Wild Onion, Quack Grass, Canada Thistle, Devil's Paint Brush, King Devil, Perennial Sow Thistle, Horse Nettle, Bindweed, Dodder.
Rhode Island	Quack Grass, Canada Thistle, Dodders, Wild Mustards, Crab Grasses, Docks, Corn Cockle, Buckhorn, Wild Carrot.
South Carolina.	Clover Dodder, Field Dodder, White Mustard, Wild Oats.
South Dakota	Quack Grass, Canada Thistle, Dodder.
Tennessee	Wild Mustard, Quack Grass, Canada Thistle, Wild Oats, Dodders, Cockle, Sour Dock, Ox-eye Daisy, Wild Onion, Johnson Grass.
Texas	Dodder, Johnson Grass, Russian Thistle, Bindweed, Blue Weed, Wire Grass, Bermuda Grass.
Utah	Group I: All Mustards, Dodders, Buckhorn, Wild Oats, Fanweed. Group II: White Top, Canada Thistle, Wild Morning Glory, Whorled Milkweed, Burdock, Russian Knapweed, Puncture Vine, Perennial Sow Thistle, Ground Cherry, Quack Grass.
Vermont	Quack Grass, Mustards, Canada Thistle, Dodder, Ergot, Corn Cockle, Poison Hemlock.
Virginia	Quack Grass, Wild Onion Bulblets, Canada Thistle, Dodder, Bermuda Grass, Hawkweed, Johnson Grass.
Washington	(a) Bindweed or Wild Morning Glory, Canada Thistle, Corn Cockle; (b) Quack Grass, Dodder, Fanweed, Perennial Sow Thistle, Poverty Weed; (c) Wild Oats; (d) Russian Thistle, Wild Mustard, Jim Hill Mustard (Sisymbrium altissimum), Buckhorn, Darnel.
West Virginia	Wild Onion, Johnson Grass, Hawkweed, Buckhorn, Wild Mustard, Indian Mustard, Corn Cockle, Ox-eye Daisy, Star Thistle, Wild Carrot, Galinsoga. Prohibit 1-5 grams. Quack Grass, Canada Thistle, Dodder, Perennial Sow Thistle.
Wisconsin	Canada Thistle, Quack Grass, Dodders, Wild and Indian Mustard, Buckhorn, Wild Oats, Corn Cockle, Ox-eye Daisy, Snapdragon, Sow Thistle.
Wyoming	Wild Mustard, Quack Grass, Canada Thistle, Corn Cockle, Dodder.

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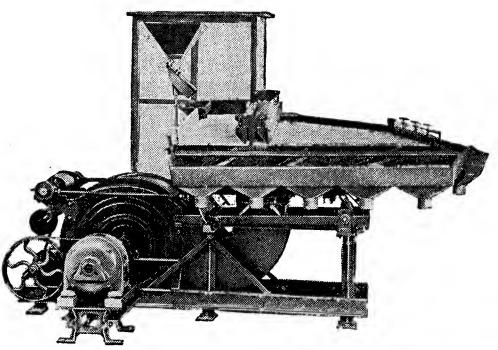
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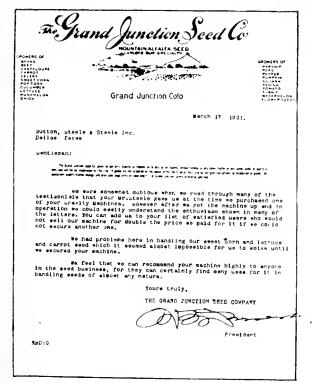
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Alfalfa	96-26	66-86	94	8-9	09	60-63	15-20	300-700	220,000
Bluegrass, Kentucky	70-85	75-85	70-85	3.4	14	14-28	20-30	200-350	2,400,000
Bluegrass, Canada	85	75-85	70-85	3-4	14	14-24	15	200-500	2,400,000
Brome Grass	90-95	66-86	85-90	5	14	12-20	10-14	250-350	137,000
Clover, Alsike	66	66	75	2	09	99-09	8-12	100-300	700,000
Clover, Red	66	66	06	5-6	09	60-63	8-12	100-300	250,000
Clover, White	66	86	7.5	2	09	60-63	8-12	200-300	700,000
Clover, Crimson	66	66	06	2	09	60-63	12-20	200-300	125,000
Clover, Sweet	95-98	66	90-95	5			20-30	150-400	235,000
Cowpea	06	66	80	2	09	Variable	30-60	900-1800	1,800-5,100
Fescue, Meadow	95	06	93	2		20-30	10-15	200-300	250,000
Millet, Foxtail (Common, Golden, Hungarian, Siberian)	06	86 1	88	4	48-50	40-55	25-50		200,000
Orchard Grass	86	65	06	2.3	14	12-22	12-20	140-168	400,000
Rape	95	66	06	9			2-4	600-1000	
Redtop	95	95-98		9	14	12-40	10-26		4,135,900
Rye Grass, Perennial	95	86	80	2		10-30	25-35	250-500	336,000
Rye Grass, Italian	95.	86	. 80	2	20	12-24	35-40	200	285,000
Soy Bean	86	66	06	2	09	09	20-30	1000-2400	2,144-6,388
Timothy	86	86	9.5	5-6	45	42-50	9-15	225-450	1,170,500
Vetch	95	66	06	3	09	09	40-90	600-720	8,500-16,000

Merchandise and Seedsmen's Supplies Index-Pages 4 and 6

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#### RED CLOVER SEED PRICES AT TOLEDO

Low and High Cash Prices per Bushel for Prime Seed by Months

		•		-					•		,
Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	$\mathrm{De}\mathbf{c}$
.192313.25 13.50		11.95 13.15	11.45 12.00	11.00 11.45	10.05 10.85	10.00 10.70	11.05 12.65	12.25 14.60	14.15 15.20	12.95 14.25	12.95 13.40
192412.60 13.90		11.30 12.35	10.75 11.50	10.80 11.40	11.00 11.65	11.35 12.40	11.80 13.30	12.75 17.60	16.50 18.20	17.65 19.90	19.05 19.80
192519.15 19.85		16.50 18.75	16.40 17.20	15.00 16.30	16.25 17.55	16.00 17.25	16.25 17.45	14.80 16.75		14.30 15.50 (*18.50 *18.75	14.75 17.05 *18.25 *18 50
1926 1926 1926 1926 1926 1926 1926 1926	15.70 *20.00	15.40 *21.00	14.35 14.40 *21.00 *21.00	17.50	17.50 17.70 *21.50 *22.00		17.75 19.50 †	19.25 21.75 *21.00 *21.75	19.00 20.00 *21.00 *22.75	20.00 20.00 21.60 22.50	20.00 20.50 22.25 22.85
20.50 21.50 *23.00 *23.50	23.00 *23.50	16.75 17.65 *24.75 *27.00			13.00 13.90 ** **	13.90 14.25	13.75 14.00	13.75 14.50	*15.60	15.50 16.40 *17.60 *18.40	16.30 16.40 *17.55 *18.70
15.75 16.30 1928 *18.05 *18.85	15.75 *16.50	14.50 14.75 *16.65 *17.75	13.75 14.50 *16.75 *17.25		13.00 14.25 *16.60 *17.75	14.25	14.00 14.25 *17.00 *17.50		13.75° 14.25 *18.00 *18.65	13.75 *17.45	12.60 12.75 *18.00 *18 25
1929 1929 *18.00 *18.25	12.75 17.50	12.75 12.75 *17.50 *17.50	12.75 12.75 *17.25 17.50					11.00 12.00 *11.65 *12.50			10.25 10.25 *11.00 *11.25
9.50		9.00	9.00					d Seeds			
1930 *10.25 1930 *10.90 (*11.30		9.00 *10.40 *11.50	9.00 *11.40 *11.75			12.60 13.50		ed Seeds 14.75 15.50	15.00 15.50	15.35 15.35	15.35 15.35
193115.35 15.35		14.00 15.00	$14.00 \\ 14.00$	14.00 14.00	13.75 14.00	13.50 13.75	9.00 13.50	7.50 8.50	7.50 8.10	8.25 9.00	8.50 9.00
1932 8.60 8.75		8.75 8.75	8.75 9.00	9.00 9.00	‡	‡	‡	5.50 5.65	5.50 5.65	5.30 5.50	5.30 5.50
1933 5.4 5.4								6.00 7.00	6.80 7.40	7.50	7.90 8.00
1934	• • • •	• • • • •	8.25 8.25					do Mar uly 11,		continu	ed

<sup>\*</sup>Domestic red clover seed. Other quotations in November and December of 1925 and all of 1926, 1927 1928, 1929 and 1930 are on imported seed.

#### When you need

#### GRASS SEEDS — FIELD SEEDS IMPORTED PIGEON GRAINS

and

#### BIRD SEEDS

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The Philadelphia Seed Co., Inc.

Front and Arch Streets

Philadelphia, Pa.

<sup>†</sup>Stopped quoting cash domestic from July 22 to September 24, 1926.

<sup>\*\*</sup>Stopped quoting cash domestic May 14, 1927.

<sup>‡</sup>Did not quote prices during June, July and August, 1932.

1878-1935

FIFTY-SEVEN YEARS
CONTRACT GROWERS
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BEANS—PEAS—SWEET CORN—RADISH— TOMATO—CUCUMBER—MUSKMELON—WATER-MELON—SQUASH

ISBELL SEED CO. JACKSON, MICHIGAN

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#### We Specialize

in

HIGH QUALITY OHIO GROWN

Red Clover, Alsike and Timothy Seeds



The ACKERMAN CO.

LIMA, OHIO

#### ALSIKE CLOVER SEED PRICES AT TOLEDO

		Hig	gh and	Low	Cash	Prices	per l	Bushel	by Mo	nths		
	Jan	. Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1919	17.30 19.65	16.50 17.50	16.75 25.50	24.00 26.00	26.00 26 <b>.</b> 00		22.25 26.25		24.30 26.50	26.50 29.75	29.50 31.25	30.05 33.00
1920	32.80 36.25	34.70 36.20	34.85 36.50	27.00 36.25	22.50 30.00	_	21.00 25.00		15.25 18.00	16.50 18.50	15.60 18.00	16.25 17.75
1921	15.50 17.50	14.50 15.50	13.00 15.00	13.50 14.15	13.50 13.50		10.10 $12.25$		10.45 10.75	10.50 10.75	10.25 10.90	10.70 11.40
1922	11.40 12.00	12.00 12.65	11.50 12.50	10.50 11.50	10.50 11.50	11.50 11.75	10.25 11.75		10.00 10.25	10.05 11.00	10.45 11.50	10.65 11.00
1923	10.55 10.95	10.45 10.60	10.45 10.50	10.50 10.50	10.00 10.50	10.25 10.25	10.15 10.25		10.40 10.75	10.00 10.50	$9.25 \\ 10.00$	9.30 9.45
1924	8.70 9.50	8.35 8.80	8.70 9.20	8.75 9.50	$9.70 \\ 10.20$	9.80 10.80	10.65 10.80		10.00 12.25	12.15 12.75	12.25 13.30	12.60 13.25
1925	13.05 13.60	12.60 13.60	12.75 14.25	14.40* 15.15		• • • •	• • • •	• • • •	• • • •	• • • •		15.60 16.25
1926	16.00 16.50	16.50 17.00	17.00 17.00	17.00 17.00	17.00 17.00	15.00 17.00	14.50 15.50		16.50 18.75	18.00 18.50	18.25 19.75	19.75 20.85
1927	21.00 22.50	22.50 22.75	$22.75 \\ 23.75$	23.75 24.00	24.00 24.00	• • • •		14.60 17.00	14.80 15.25	14.80 15.40	15.40 16.70	16.00 16.80
1928	16.20 16.30	15.95 16.25	15.00 15.95	15.00 15.45	15.00 15.00	15.00 16.25	16.25 16.50	16.25 18.75	18.75 18.75	18.75 19.75	18.60 19.90	19.00 19.20
1929	19.00 19.00	19.00 19.25	19.25 20.00	20.00 20.00	20.00 20.00	• • • •	11.00 12.00	10.10 11.75	10.40 10.95	10.50 10.90	10.40 10.50	10.50 10.75
1930	10.60 10.75	10.40 10.65	10.40 11.00	11.00 11.00	11.00 11.00	11.00 11.20	11.20 11.95	11.80 12.50	12.50 13.75	13.65 13.75	13.65 13.75	13.75 13.75
1931	13.75 13.90	13.90 14.00	$14.00 \\ 14.00$	14.00 14.00	14.00 14.00	$14.00 \\ 14.00$	$8.65 \\ 14.00$	8.10 8.65	7.50 7.75	7.50 7.90	8.00 8.50	8.50 8.75
1932	8.50 8.75	8.75 8.75	8.75 8.75	8.75 8.75	8.75 8.75	† †	† †	† †	5.50 5.75	5.50 5.85	5.50 <b>5</b> .85	5.50 5.90
1933	5.80 5.90	5.80 5.80	5.80 6.20	6.20 6.20	6.20 7.50	7.50 7.75	7.75 8.75	8.50 8.75	8.00 8.50	8.25 8.50	8.50 8.50	8.50 8.50
1934	8.50 8.50	8.50 8.50	8.50 8.50	8.50 8.50	8.50 8.50	8.50 8.50		do Mark ed on Ju				

<sup>\*</sup>Cash prices not quoted after April 20, 1925.

#### WHOLESALE CASH PRICES OF FIELD SEEDS, 1922-34

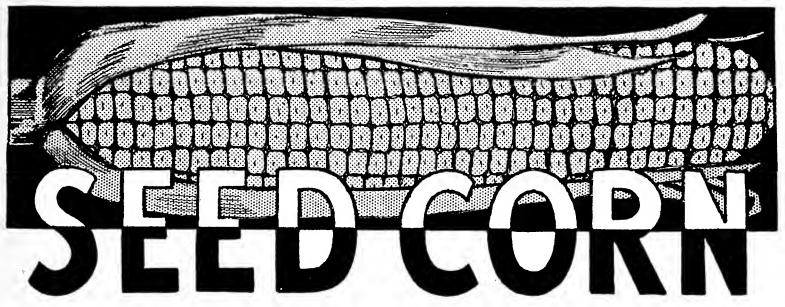
(For best grades, per 100 pounds)

Compiled by Hay, Feed & Seed Division, Bureau of Agricultural Economics. U. S. Department of Agriculture

					•			Ţ	Centucky	,		
				Sweet	Lespe-	Hairy				German	Amber	Sudan
	Alfalfa,	Red	Alsike	clover.	deza,	vetch.	Tim 04h	Red-	grass,	millet,	sorgo,	grass,
Year	Kansas City	clover, Chicago	clover, Chicago	Minne- apolis	Louis- ville	more	Timothy, Chicago	top, Chicago	Kansas City	Kansas City	Kansas City	Kansas City
192 <b>2</b>	18.00	23.50	18.20	8.50	17.10	12.00	7.00	22.65	53.50	2.15	2.00	4.70
1923	20.00	20.90	16.50	12.40	19.00	16.80	7.00	18.70	25.90	3.95	4.25	15.10
1924	22.30	20.90	15.70	15.30	21.10	10.40	8.00	13.60	25.10	4.00	1.70	8.20
1925	22.70	34.00	23.40	12.30	19.50	8.90	6.80	14.40	28.00	5.00	2.20	5.70
1926	20.40	33.70	27.60	9.70	15.20	12.30	7.90	31.25	38.00	3.10	2.80	4.20
1927	19.90	42.50	37.30	13.60	8.20	15.20	6.00	25.30	20.50	3.30	3.30	7.00
1928	21.80	30.60	27.80	8.50	18.80	9.70	4.70	13.10	19.70	2.40	2.00	3.70
1929	26.00	33.70	34.70	8.50	20.60	9.30	6.60	14.60	31.30	3.40	2.10	5.60
1930	24.85	21.35	19.90	8.00	14.50	9.00	8.05	16.45	20.00	3.45	3.45	5.40
1931	22.55	25.05	23.90	9.20	14.70	8.45	10.55	24.20	34.35	3.70	2.80	7.40
1932	13.65	16.35	15.05	5.50	8.30	7.50	4.30	8.70	13.45	1.75	1.15	1.70
1933	<b>13.6</b> 0	11.40	11.95	4.50	7.50	7.00	3.25	5.30	8.35	1.60	1.15	2.10
1934	13.00	14.75	16.25	6.50	5.00	8.75	8.50	8.40	13.40	3.35	1.60	5.50

Directory Section Index-Page 4

<sup>†</sup>Did not quote prices during June, July and August, 1932.



#### NORTHERN GROWN, HIGH VITALITY, EARLY MATURING, DISEASE RESISTANT SWEET CORN

TWENTY-FIVE YEARS' EXPERIENCE, A NORTHERN LOCATION, FERTILE CORN SOIL, COMPLETE DRYING AND CLEANING EQUIPMENT.—We solicit your contracts for 1935 crop sweet corn.—All the standard early and medium varieties, also the new sweet corn Hybrids, including Golden Cross Bantam. We have never made less than 95% delivery on any growing contract, including 1934 crop.

CERTIFIED FIELD CORN

All the standard medium and early varieties. We also grow a large amount of the new field corn Hybrids. 1934 and 1935 crop.

#### Wm. H. JACQUES PRESCOTT WISCONSIN

Is Your Name
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Fulghum Seed Oats, Coker Strain Abruzzi Seed Rye, Coker Strain Redhart Seed Wheat, Coker Strain Cotton Seed, Coker Strain Cleveland Big Boll

Cotton Seed, Wannamaker Strain Big Boll

Cotton Seed, Dixie Triumph, Wilt Resistant

Cotton Seed, Coker Strain Cleve Wilt Velvet Beans, Early Speckled and Osceola

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Get our prices on carlots and less. Quality First, Then Price.



ORANGEBURG, S. C.

#### RANGE OF MARCH CLOVER SEED PRICES AT TOLEDO

#### Low and High Prices per Bushel by Months

Crop of	Aug.	Sept.	Oct.	Nov.	Dec.		Jan.	Feb.	Mar.
1921		11.40	12.30	11.75	12.55	1922	,	14.00	14.50
	13.95	13.30	12.95	12.75	13.35		14.25	15.95	16.15
1922	9.05	9.85	11.35	12.85	13.35	1923	,	12.70	12.75
		11.70	12.80	13.50	13.90		13.65	13.50	13.05
1923	11.90	13.15	13.85	13.05	13.05	1924	$\int 12.80$	11.35	11.50
	13.40	<b>15</b> .20	14.60	13.90	13.60		14.05	13.05	12.35
1924	13.00	13.20	17.00	17.95	19.15	1925	$\int 19.35$	18.00	16.50
	13.65	18.50	18.50	19.95	20.00		120.10	19.85	18.45
1925	14.45	14.45	15.05	14.75	14.65	1926	$\int 14.65$	14.85	14.25
	15.35	16.05	16.00	15.50	15.20		16.10	15.75	15.40
1926	17.25	16.90	15.95	16.85	17.45	1927	$\int 17.70$	16.60	16.65
	17.75	19.20	17.25	17.70	18.00		18.50	17.85	17.65
1927		15.85	15.95	17.60	17.80	1928	ſ <b>18.00</b>	16.40	16.65
		16.80	17.75	18.50	18.70		19.00	18:00	17.75
1928				17.95	18.35	1929	ſ18.20	17.55	17.50
				19.00	18.75		18.60	18.10	17.50
1929			11.60	11.15	11.50	1930	11.15	10.80	10.45
			12.25	11.60	11.75		11.50	11.15	11.70
1930		15.75	15.75	15.55	15.40	. 1931	15.15	14.75	14.00
	16.25	16.25	16.25	15.75	15.50	,	15.40	15.15	14.75
1931			8.50	8.75	8.90	1932	•	8.75	8.75
				9.50	9.00		9.00	8.90	8.75
1932		Not	anoted			1933	•	t quote	
		1101	7.25	7.75	8.15	1934		8.25	8.25
1933	• • • •	• • • •	7.23 7.75	8.15	8.25	1394	8.25	8.25	8.25
1/00	• • • •	• • • • •	1.13	0.13	0.23		(0.23	0.23	0.20

#### FIELD SEED PRODUCTION IN UNITED STATES FOR PAST FIVE YEARS

Compiled by Hay, Feed & Seed Division, Bureau of Agricultural Economics. U. S. Department of Agriculture

	Lbs. or	•		•		
Kind	Bus.	1930	1931	1932	1933	1934
Alfalfa*	Lbs.	70,000,000	50,300,000	32,100,000	55,400,000	40,000,000
Clover, alsike*	Lbs.	26,400,000	21,000,000	26,200,000	25,000,000	13,000,000
Clover, red*	Lbs.	63,000,000	46,100,000	75,000,000	59,000,000	36,000,000
Clover, sweet*	Lbs.	50,900,000	50,300,000	41,600,000	<b>41,4</b> 00,000	33,000,000
Clover, white	Lbs.	1,200,000	1,000,000	775,000	900,000	800,000
Clover, crimson	Lbs.	500,000	1,000,000	1,200,000	1,500,000	1,000,000
Bluegrass, Ky	Bus.	775,000	3,500,000	1,400,000	1,300,000	325,000
Meadow Fescue**	Lbs.	1,000,000	900,000	600,000	550,000	500,000
Orchard Grass	Bus.	205,000	410,000	140,000	260,000	165,000
Redtop**	Lbs.	7,500,000	18,000,000	16,000,000	7,500,000	6,000,000
Sudan Grass	Lbs.	23,000,000	50,000,000	12,000,000	20,000,000	13,000,000
Timothy*	Lbs.	78,300,000	92,200,000	63,300,000	40,900,000	8,500,000

<sup>\*</sup>Figures for these seeds subject to revision.

\*\*Recleaned.

#### Use the TRADE MARK SECTION

starting page 50—for the leading Trade Marks and Brands used by the Seedsmen and Manufacturers of Allied Lines.

#### Ferti-Lawn Seed

Write for information on this new product, to

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All bean stocks are bred for freedom from mosaic, bacterial blight and anthracnose.

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"OUR SEEDS GROW FRIENDS"

WASHBURN WILSON SEED COMPANY

MOSCOW

IDAHO

#### OWENT. WATTS

#### WHOLESALE FIELD SEEDS

I am interested in anything you have to offer and will try to sell you anything you want to buy.

PHONE HIGHLAND 5064

114 NORTH GALT AVE.

LOUISVILLE • KENTUCKY

e specialize in imported and home grown grass seeds, bents, fescues, poa trivialis, rye grass, blue grass, orchard grass, redtop. Our section produces extra quality clovers and timothy seed.

O. M. SCOTT & SONS CO.

Marysville, Ohio.

#### MONTHLY CASH PRICES OF TIMOTHY SEED

The following table exhibits the monthly range of prices, per 100 lbs., for cash Timothy Seed in the Chicago market during the past 21 years:

the Unicago market	during					_ :4			<b>a</b> .	•	3.7	
	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1914	5.40 5.55	5.30 5.50	5.00 5.50	5.00 5.40	5.00 5.50	5.00 5. <b>7</b> 5	5.50 6.75	5.80 6.50	5.50 6.50	5.40 5.60	5.30 5.90	5.90 7.85
1915	7.75 8.00	7.30 7.75	6.6 <b>5</b> 7.40	6.90 7.25	6.50 7.25	6.7 <b>5</b> 7.50	6.00 7.50	6.40 10.00	8.00 9.25	<b>7</b> .7 <b>5</b> 8.50	8.00 8.50	8.00 9.00
1916	8.35 8.80	8.40 8.80	8.50 9.00	8.50 8.50	8.50 9.25	8.7 <b>5</b> 9.25	8.25 8.75	5.2 <b>5</b> 8.50	5.00 5.25	5.00 5.35	5.25 5.75	5.45 5.75
1917	5.30 <b>5.</b> 75	5.40 5.50	5.75 5.90	6.00 7.75	6.75 8.40	7.25 8.00	7.50 8.50	7.60 8.00	6. <b>5</b> 0 8.25	6.75 8.25	7.00 8.50	7.00 7.50
1918	7.15 8.00	7.25 7.50	7.00 7.50	7.00 7.75	7.15 7.75	7.00 8.50	8. <b>5</b> 0 9.00	8.9 <b>5</b> 10.00	9.8 <b>5</b> 11.00	10.50 12.00	10.00 12.50	11.00 12.15
1919	11.40 11.75	$10.00 \\ 11.25$	$\frac{11.00}{11.50}$	10.75 13.50	13.00 14.00	12.60 13.00	12.65 13.25	12.50 12.70	12.00 12.75	12.00 12.75	12.10 12.80	12.00 12.50
1920	13.50 15.50	13.75 15.40	13.00 14.65	12.00 13.50	11.50 12.75	11.50 12.75	12.50 12.75	10.00 11.40	9.50 9.75	5.00 7.25	5.00 6.75	5.50 7.00
1921	5.50 6.75	4.50 6.2 <b>5</b>	5.00 6.75	6.00 7.65	7.00 7.85	7.00 7.30	6.25 7.50	5.90 6.75	<b>5.50</b> 6.00	5.75 6.75	6.00 <b>7.50</b>	7.00 7.25
1922	7.00 8.00	7.25 7.75	7.00 7.75	7.00 7.25	7.00 7.00	6.00 6.2 <b>5</b>	5.00 6.25	6.00 6.25	6.00 <b>7</b> .00	6.50 7.50	7.00 7.50	7.00 7.75
1923	7.25 7.50	7.25 7.50	7.25 7.50	7.25 7.25	7.00 <b>7.</b> 75	7.75 7. <b>7</b> 5	••••	••••	7.60 8.00	8.00 9.50	8.00 9.00	8.00 9.00
1924	8.50 10.25	8.75 10.25	$\begin{array}{c} 8.50 \\ 10.00 \end{array}$	8.75 9.00	8.25 8.75	8.7 <b>5</b> 8.7 <b>5</b>	8.7 <b>5</b> 8.7 <b>5</b>	6.00 7. <b>5</b> 0	<b>4.75</b> 6.6 <b>5</b>	4.7 <b>5</b> 6.00	4.85 6.35	5.50 6.65
1925	5.7 <b>5</b> 6.40	5.25 6.1 <b>5</b>	<b>5</b> .2 <b>5 5</b> .9 <b>0</b>	<b>5.25</b> 6.30	5.50 6.40	6.35 7.70	6.85 7.35	6.75 7.75	6.50 7.75	6.7 <b>5</b> 7.75	6.50 7.75	6: <b>5</b> 0 <b>8</b> .00
1926	6. <b>5</b> 0 8. <b>1</b> 0	6.40 7.65	6.0 <b>5</b> 7.20	6.0 <b>0</b> 7.00	6.00 7.00	6.00 <b>7</b> .00	6.00 7.50	5.00 7.50	5.00 6.10	5.00 5.75	4.75 5.15	5.00 5.25
1927	4.85 5.75	4.50 5.25	4.50 4.75	4.25 4.75	4.00 4.25	4.00 5.50	4.00 5.50	3.50 4.75	2.25 3.75	2. <b>25</b> 3.25	3.25 4.50	3.25 4.50
1928	3.25 4.25	3.00 4.25	3.00 3.75	3.00 4.25	3.30 4.2 <b>5</b>	3.30 4.45	3.35 4.45	3.3 <b>5</b> 4.50	3.50 5.60	<b>4.75</b> 6.00	<b>4.5</b> 0 <b>6.00</b>	5.00 6.25
19 <b>29</b>	5.00 6.2 <b>5</b>	5.00 6.25	5.00 6.25	<b>5.00 6.00</b>	<b>5</b> .00 6.00	5.00 6.00	4.30 6.00	3.85 5.25	4.00 5.50	4.00 5.50	<b>5.</b> 25 <b>6.0</b> 0	<b>5.50</b> 6. <b>00</b>
1930	5.50 6.00	4.50 6.00	<b>3.5</b> 0 6.00	4.50 7.50	6.50 8.50	6. <b>5</b> 0 8.00	5.25 7.00	5.00 7.00	5.50 8.50	6.50 <b>8.75</b>	8.00 9.25	8.00 9.00
1931	8.00 9.00	8.75 9.75	8.25 9.75	8.00 8.75	7.50 8.75	5.50 7.50	3.50 5.50	3.00 4.00	3.00 4.00	3.00 4.00	3.00 4.00	3.75 4.25
1932	3.50 4.25	3.15 3.75	3.00 3.25	2.75 3.25	2.90 3.00	2.50 3.00	2.25 2.50	2.15 2.75	2.25 2.50	2.25 2.50	2.25 2.50	2.10 2.50
1933	2.10 2.35	2.10 2.35	2.00 2.35	$\frac{2.00}{2.60}$	2.25 2.60	2.25 3.90	3.00 4.25	4.25 5.00	4.50 6.25	5.75 6.25	5.50 6.25	5.50 6.00
1934	6.50 7.00	6.75 7.50	7.25 7.50	6.00 6.90	6.00 7.75	7.50 9.50	9.25 11.50	11.00 18.00	16.50 19.00	16.50 17.50	16.50 17.75	• • •

#### NUMBER OF PLANTS TO AN ACRE

#### SET AT REGULAR DISTANCES APART

Distance apart	No. Plants	Distance apart	No. Plants	Distance apart	No. Plants
3 in. by 4 in	522,720	3 ft. by 3 ft	4,840	5 ft. by 5 ft	
4 in. by 4 in 6 in. by 6 in		3½ ft. by 3½ ft. 4 ft. by 1 ft		5½ ft. by 5½ ft 6 ft. by 6 ft	
1 ft. by 1 ft	43,560	4 ft. by 2 ft	3,630	$6\frac{1}{2}$ ft. by $6\frac{1}{2}$ ft.	1,031
1½ ft. by 1½ ft 2 ft. by 1 ft		4 ft. by 4 ft 4½ ft. by 4½ ft		7 ft. by 7 ft 8 ft. by 8 ft	
2 ft. by 2 ft	10,890	5 ft. by 1 ft	8,712	9 ft. by 9 ft	537
2½ ft. by 2½ ft 3 ft. by 1 ft		5 ft. by 2 ft 5 ft. by 3 ft		10 ft. by 10 ft 11 ft. by 11 ft	
3 ft. by 2 ft				12 ft. by 12 ft	

RULE—Multiply the distance in feet between the rows by the distance the plants are apart in the rows, and the product will be the number of square feet for each plant or hill; which divided into the number of square feet (43,560), will give the number of plants to the acre.



# Cosmos, Early Klondyke ORANGE FLARE

The Grand Champion Gold Medal Winner 1935 All-America Competition

WE are generally conceded leaders in the field of Gleam Nasturtiums, Asters and Zinnias. This exceptional Cosmos novelty is an indication of the successful work we are doing on a wide range of additional flowers in our fifty acres of experimental grounds.

# BODGER SEEDS, LTD.

El Monte, Los Angeles County, California CALIFORNIA'S CHOICEST FLOWER SEEDS SINCE 1890



# Rust. Snapdragons

have introduced in the new rust proof strains. Beautiful separate colors and an excellent mixture now available. Destined to revolutionize all old commercial rust susceptible varieties. Our New Deal Strains are the result of an extensive breeding program utilizing scientifically refined and accurate plant breeding methods. Only comprehensive work of this type has made possible the development of the separate colors we

# SACRAMENTO CALIFORNIA Cable Address, "LAGO"

F. LAGOMARSINO & SONS

# PRICES OCTOBER CLOVER SEED AT TOLEDO Low and High Prices per Bushel by Months

			_	_		_			
	Crop of	March	April	May	June	July	Aug.	Sept.	Oct.
1918	,	19.70	18.00	18.00	12.80	13.10	16.30	19.05	22.55
	1	20.85	20.20	18.40	14.20	16.35	19.50	23.80	24.00
1919		17.00	17.15	19.75	21.50	26.20	29.50	28.15	30.00
		19.30	19.75	22.00	25.50	32.50	32.35	30.60	31.80
1920		23.00	22.00	23.40	23.50	20.15	18.20	14.60	12.90
		25.25	24.25	24.25	26.25	25.95	21.75	18.55	15.60
1921		9.00	8.85	9.50	10.35	11.35	11.65	11.40	12.30
	•	9.95	9.40	10.50	12.25	14.00	14.05	12.95	13.65
1922		11.00	11.10	11.05	10.80	10.67	8.97	9.70	11.05
		12.35	12.00	11.60	11.35	11.40	10.27	11.50	12.70
1923		11.20	11.45	11.70	11.00	10.90	11.85	13 10	14.30
		11.72	11.95	12.30	11.97	11.55	13.35	15.65	15.60
1924		11.92	11.75	11.85	12.00	12.35	12.50	13.90	17.30
		12.65	12.40	12.40	12.65	13.60	14.30	19.00	19.00
1925	• • • • • • • • • • • • • • • • • • • •	13.00	13.00	13.05	14.50	14.55	14.75	14.75	16.75
		14.00	14.50	14.25	16.10	16.00	16.00	17.25	18.25
1926		15.65	15.65	16.50	19.25	19.65	19.95	20.75	21.00
		16.50	16.70	19.50	20.75	21.25	22.10	22.50	22.75
1927	• • • • • • • • • • • • • • • • • • • •	1.16.50	16.45	16.00	16.50	16.60	17.00	15.00	15.70
		17.50	17.00	16.85	16.95	17.50	18.00	17.25	17.90
1928	• • • • • • • • • • • • • • • • • • • •	15.00	16.25	17.30	17.75	18.65	17.30	18.00	18.30
		16.15	17.75	17.75	18.75	19.10	18.65	18.60	18.65
1929							12.95	11.75	11.10
		• • • •	• • • •	• • • •	• • • •	• • • •	14.75	12.75	11.85
1930			12.00	12.60	12.60	13.60	14.35	14.75	15.00
		12.20	12.60	12.60	13.25	14.35	15.75	15.50	15.50
1931		12.25	14.25	14.25	13.75	13.50	9.00	7.50	7.50
		14.00	14.25	14.25	14.25	13.75	13.75	8.50	8.10
1932								5.50	5.60
		• • • •	• • • •	• • • •	• • • •	• • • •		5.65	<b>5</b> .65
1933				6.50	7.50	8.00	7.25	6.15	6.90
4001					8.00	8.75	9.00	7.25	7.40
1934		No C	ot. Quot	ations			Market D 11, 1934	uscontinu	ied

## **ALSIKE**

RED CLOVER SWEET CLOVER ALFALFA, CANADIAN VARIEGATED CANADIAN BLUE GRASS

SAMPLES ON REQUEST—CARLOTS

"CANADA'S GREATEST SEED HOUSE"

STEELE, BRIGGS SEED CO.

TORONTO Limited

CANADA

#### FORAGE PLANT SEEDS PERMITTED ENTRY UNDER FEDERAL SEED ACT

#### By Fiscal Years Ending June 30, 1928-1934, and by Countries Exporting

(Reported by the U. S. Division of Seed Investigations, Washington, D. C.)

<b>ALFALFA</b>	Α	L	F	Ά	L	$\mathbf{F}$	A	
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ALFALFA								
COUNTRY Argentina Canada France Germany Latvia Other countries.	1928 Pounds 728,300  (3)53,900 100	1929 Pounds 317,900 154,000 (2)198,500 (4)476,000	1930 Pounds 302,100 2,300 32,600	1931 Pounds 44,500 177,900 11,000	1932 Pounds 352,700	1933 Pounds (1)2,600 2,600 (1)3,000	1934 Pounds 24,500	
other countries	100		LSIKE CLO	VER	• • • • •	(1)33,000	(1)22,000	
:	1928				1020	1022	1024	
Canada Germany	Pounds 7,608,600	1929 Pounds 4,787,000 10,900	1930 Pounds 7,220,300	1931 Pounds 93,800	Pounds 	1933 Pounds	1934 Pounds	
Other countries	• • • • •	• • • • •	• • • • •	• • • • •	• • • • •	• • • • • •	• • • • • •	
*		WIN	ITER RAPE	SEED				
China	1928 Pounds 30,100	1929 Pounds	1930 Pounds	1931 Pounds	1932 Pounds	1933 Pounds	1934 Pounds	
France Germany Great Britain Hungary Japan The Netherlands Poland Other countries	83,700 3,700 1,703,300 4,616,700	460,000 216,600 6,900 223,100 1,454,400 4,621,300	175,900 138,300 6,300 79,700 4,397,800 1,709,700 162,200 10,900	(5)489,000 6,700 69,600 2,042,000 2,478,800 32,800	21,800 214,700 2,100 59,600 961,300 2,410,100 92,200 100	33,100 120,400 9,600 4,149,700 831,900 29,600 100	33,700 2,600 58,600 4,507,200 631,100 32,700 15,300	
HAIRY VETCH								
Canada Czechoslovakia Denmark	1928 Pounds 6,100 42,900 52,300	1929 Pounds 19,200 240,100	1930 Pounds 507,600 (7)713,400	1931 Pounds 6,500 64,500	1932 Pounds 14,300 228,500 78,200	1933 Pounds 7,500 548,000 5,400	1934 Pounds 1,200 225,300 10,900	
Germany Great Britain Hungary Latvia Lithuania Poland	1,351,200 945,700 1,256,900 110,200 86,000	(6)1,801,200 <b>800</b> 1,226,100 474,700  142,800	1,074,300 165,000	(8) 543,100 540,000 427,000	1,043,900	(10) 540,500 647,100 13) 1,041,700 41,600 61,800	(12)55,100 1,975,500	
Sweden Other countries	43,900	159,000	22,800	47,100	2,600		22,000	
countries	• • • • •	PERE	NNIAL RY		••••	••••	•••••	
	1020				1022	1022	1934	
Denmark	1928 Pounds 20,000 97,600 624,000 340,200 1,000	1929 Pounds 21,500 127,300 886,900 138,000 6,200	1930 Pounds 6,000 202,800 696,200 11,600 20,500	1931 Pounds 500 (16) 295,400 523,500 3,200 900	1932 Pounds 2,300 (17)219,200 373,200 47,900 (20)2,900	1933 Pounds 7,100 (18)248,700 206,100 300 600	Pounds 5,600	
		CR	IMSON CLO	OVER				
Czechoslovakia France Germany Great Britain	1928 Pounds 21,500 725,600 107,600 19,500	1929 Pounds 132,400 2,632,700 157,100	1930 Pounds 162,500 581,500 (22)681,800(	1931 Pounds 1,242,200 (23)231,800 85,700	1932 Pounds  54,600 (24)285,900 20,100	1933 Pounds 5,500	1934 Pounds  (23)21,800	
Hungary Poland	471,900	472,500	1,673,000	1,519,200	1,470,600	673,300 6,200	1,921,200 34,000	

<sup>(1)</sup> American goods returned. (2) 197,500 lbs. of Turkestan origin; 1,000 lbs. American goods returned. (3) Of Turkestan origin. (4) 465,200 lbs. of Turkestan origin. (5) 11,000 lbs. of Hungarian origin. (6) 126,500 lbs. of Latvian origin. (7) 271,500 lbs. of Czechoslovakian origin; 187,300 lbs. of Latvian origin; 87,600 lbs. of Hungarian origin. (8) 356,800 lbs. of Hungarian origin; 46,800 lbs. of Czechoslovakian origin. (9) 60,500 lbs. of Hungarian origin; 43,800 lbs. of Latvian origin. (10) 142,600 lbs. of Lithuanian origin; 28,600 lbs. of Latvian origin; 10,900 lbs. of Czechoslovakian origin. (11) 71,500 lbs. of Hungarian origin; 33,000 lbs. of Czechoslovakian origin; 17,600 lbs. of Lithuanian origin. (12) Of German origin. (13) 76,500 lbs. of Lithuanian origin. (14) 77,000 lbs. of Lithuanian origin. (16) 51,600 lbs. of Irish origin. (17) 155,100 lbs. of Irish origin. (18) 214,700 lbs. of Irish origin. (19) 133,800 lbs. of Irish origin. (20) 2,200 lbs. of Australian origin; 700 lbs. from Holland. (21) Of Irish origin. (22) 589,900 lbs. of Hungarian origin; 36,100 lbs. of Czechoslovakian origin. (23) Of Hungarian origin. (24) 187,900 lbs. of Hungarian origin.

#### Directory Section Index-Page 4

#### FORAGE PLANT SEEDS PERMITTED ENTRY UNDER FEDERAL SEED ACT

(Continued from preceding page)

$\cap$ D	CIL	A 1	D D	CDA	00
UK	$\mathbf{C}\mathbf{\Pi}$	A.	KD.	GRA	661

	1928	1929	1930	1931	1932	1933	1934
COUNTRY	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
Denmark	169,500	1,964,000	123,400	339,700	• • • • •	19,000	5,000
Germany	3,000	376,100	191,700	2,200	1,100		
The Netherlands	• • • • •	36,900	300	• • • • • •	• • • • •		
Other countries	• • • • •	100	3,000	100	• • • • •	100	100
		1	RED CLOV	r D			
	1000						
	1928	1929	1930	1931	_ 1932	1933	1934
C 1	Pounds	Pounds	Pounds	Pounds	Pounds	$\mathbf{Pounds}$	Pounds
Canada	3,300	183,700	300	44 100	100	• • • • •	
Czechoslovakia	(1)43,600	185,700	53,800	44,100	• • • • •	• • • • •	• • • • •
France	462,300 (2)656,700	3,623,000	471,800	2,630,800	• • • • •	• • • • •	• • • • •
Germany Great Britain		(3)465,200 (5)901,800	(4) 358,000 89,600	11 200	(6) 20 200		
The Netherlands.	200,000	109,300	44,100	11,200	(6)30,800	• • • • •	• • • • •
Poland	1,872,300	1,524,300	953,000	119,100	• • • • •	• • • • •	• • • • •
Other countries.		(9) 554,000	(8) 183,700	100	(6)100	• • • • •	(6)11 000
other countries.	(0)1,102,000	())331,000	(0)103,700	100	(0)100	• • • • •	(6)11,000
		CAN	ADA BLUE	GRASS			
	1928	192 <b>9</b>	1930	1931	1932	1933	1934
	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
Canada	1,101,900	1,227,800	608,000	985,100	366,200	191,100	128,100
• •	-,-:- <b>,</b>		ŕ	·	000,200	151,100	120,100
		SI	PRING VET	rch			
•	1928	1929	1930	1931	1932	1933	1934
	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
Canada		600			500	• • • • • •	100
Germany	187,100		358,100	286,700		95,500	(10)30,600
Great Britain	17,500		• • • • •		• • • • •		
Latvia	19,800		110,200	33,000	• • • • •		
	` 63,000		11,000	55,100			
The Netherlands.							
Poland	220,300		43,700	200 700 /		• • • • • •	87,800
			43,700 (11)297,900		12) 201,600		87,800 (13) 599,900
Poland	220,300		43,700 (11)297,900	329,500 ( from Belgiu	12) 201,600		
Poland	220,300	100	43,700 (11)297,900 (	from Belgiu	12) 201,600		
Poland	220,300 54,800	i00	43,700 (11)297,900 ( LIAN RYE	from Belgiu GRASS	12) 201,600 m)	(	(13) 599,900
Poland	220,300 54,800	i00 ITA1 1929	43,700 (11)297,900 ( LIAN RYEO	from Belgiu GRASS 1931	12) 201,600 m)	1933	(13) 599,900 1934
Poland Other countries	220,300 54,800 1928 Pounds	100 ITA 1929 Pounds	43,700 (11)297,900 ( LIAN RYE 1930 Pounds	from Belgiu GRASS 1931 Pounds	12) 201,600 m)  1932 Pounds	1933 Pounds	(13) 599,900 1934 Pounds
Poland Other countries  Argentina	220,300 54,800 1928 Pounds	100 ITA 1929 Pounds	43,700 (11)297,900 ( LIAN RYE 1930 Pounds 44,800	from Belgiu GRASS 1931 Pounds	12) 201,600 m)  1932 Pounds	1933 Pounds	1934 Pounds
Poland Other countries  Argentina Denmark	220,300 54,800 1928 Pounds 72,000	100 ITA 1929 Pounds 42,500	43,700 (11)297,900 (LIAN RYEC 1930 Pounds 44,800 73,100	from Belgiu GRASS 1931 Pounds 39,800	12) 201,600 m)  1932 Pounds 18,200	1933 Pounds  14,000	1934 Pounds  6,000
Argentina Denmark France	220,300 54,800 1928 Pounds 72,000 21,800	100 ITA1 1929 Pounds 42,500	43,700 (11)297,900 (LIAN RYEO 1930 Pounds 44,800 73,100	from Belgiu GRASS 1931 Pounds 39,800	12) 201,600 m)  1932 Pounds	1933 Pounds  14,000	1934 Pounds  6,000
Argentina Denmark France Great Britain	220,300 54,800 1928 Pounds 72,000 21,800 5,400	100  ITA  1929  Pounds  42,500  37,400	43,700 (11)297,900 (LIAN RYEO 1930 Pounds 44,800 73,100  9,000	from Belgiu GRASS 1931 Pounds 39,800 (14)67,600	12) 201,600 m)  1932 Pounds 18,200 10,400	1933 Pounds 14,000 (15)13,400	1934 Pounds  6,000 (16)4,500
Argentina Denmark France Great Britain Ireland	220,300 54,800 1928 Pounds 72,000 21,800 5,400 167,400	100  ITA  1929 Pounds	43,700 (11)297,900 (11)297,900 (LIAN RYEO 1930 Pounds 44,800 73,100  9,000 94,600	from Belgiu GRASS 1931 Pounds 39,800 (14)67,600 90,100	12) 201,600 m)  1932 Pounds 18,200 10,400 45,400	1933 Pounds 14,000 (15)13,400 7,200	1934 Pounds  6,000 (16)4,500 4,500
Argentina Denmark France Great Britain Ireland The Netherlands.	220,300 54,800 1928 Pounds 72,000 21,800 5,400 167,400 1,900	100  ITA  1929 Pounds 42,500 37,400 102,800 600	43,700 (11)297,900 (11)297,900 (LIAN RYEO 1930 Pounds 44,800 73,100  9,000 94,600 3,900	from Belgiu GRASS 1931 Pounds 39,800 (14)67,600 90,100 2,300	12) 201,600 m)  1932 Pounds 18,200 10,400 45,400 500	1933 Pounds 14,000 (15)13,400 7,200 200	1934 Pounds  6,000  (16)4,500 4,500 200
Argentina Denmark France Great Britain Ireland	220,300 54,800 1928 Pounds 72,000 21,800 5,400 167,400	100  ITA  1929 Pounds	43,700 (11)297,900 (11)297,900 (LIAN RYEO 1930 Pounds 44,800 73,100 9,000 94,600 3,900 13,600	from Belgiu GRASS 1931 Pounds 39,800 (14)67,600 90,100	12) 201,600 m)  1932 Pounds	1933 Pounds  14,000  (15)13,400 7,200 200 6,500	1934 Pounds 6,000 (16)4,500 4,500 200 11,200
Argentina Denmark France Great Britain Ireland The Netherlands. New Zealand	220,300 54,800 1928 Pounds 72,000 21,800 5,400 167,400 1,900 187,200	100  ITA  1929  Pounds  42,500  37,400  102,800  600  115,300 (17)1,400	43,700 (11)297,900 (11)297,900 (LIAN RYEO 1930 Pounds 44,800 73,100  9,000 94,600 3,900 13,600 (18)4,900	from Belgiu GRASS 1931 Pounds 39,800 (14)67,600 90,100 2,300 600	12) 201,600 m)  1932 Pounds 18,200 10,400 45,400 500	1933 Pounds 14,000 (15)13,400 7,200 200	1934 Pounds  6,000  (16)4,500 4,500 200
Argentina Denmark France Great Britain Ireland The Netherlands. New Zealand	220,300 54,800 1928 Pounds 72,000 21,800 5,400 167,400 1,900 187,200 200	100  ITA  1929 Pounds	43,700 (11)297,900 (11)297,900 (1930) Pounds 44,800 73,100 9,000 94,600 3,900 13,600 (18)4,900	from Belgiu GRASS 1931 Pounds 39,800 (14)67,600 90,100 2,300 600	12) 201,600 m)  1932 Pounds	1933 Pounds  14,000  (15)13,400 7,200 200 6,500	1934 Pounds 6,000 (16)4,500 4,500 200 11,200
Argentina Denmark France Great Britain Ireland The Netherlands. New Zealand	220,300 54,800 1928 Pounds 72,000 21,800 5,400 167,400 1,900 187,200	100  ITA  1929  Pounds  42,500  37,400  102,800  600  115,300 (17)1,400	43,700 (11)297,900 (11)297,900 (LIAN RYEO 1930 Pounds 44,800 73,100  9,000 94,600 3,900 13,600 (18)4,900	from Belgiu GRASS 1931 Pounds 39,800 (14)67,600 90,100 2,300 600	12) 201,600 m)  1932 Pounds 18,200 10,400 45,400 500 600	1933 Pounds 14,000 (15)13,400 7,200 200 6,500	1934 Pounds 6,000 (16)4,500 4,500 200 11,200
Argentina Denmark France Great Britain Ireland The Netherlands. New Zealand	220,300 54,800 1928 Pounds 72,000 21,800 5,400 167,400 1,900 187,200 200	100  ITA  1929 Pounds	43,700 (11)297,900 (11)297,900 (1930 Pounds 44,800 73,100 9,000 94,600 3,900 13,600 (18)4,900 HITE CLOV 1930 Pounds	from Belgiu GRASS 1931 Pounds 39,800 (14)67,600 90,100 2,300 600 VER 1931 Pounds	12) 201,600 m)  1932 Pounds 18,200 10,400 45,400 500 600	1933 Pounds  14,000  (15)13,400 7,200 200 6,500 (19)1,000	1934 Pounds 6,000 (16)4,500 4,500 200 11,200
Argentina Denmark France Great Britain Ireland The Netherlands. New Zealand Other countries  Czechoslovakia	220,300 54,800 1928 Pounds 72,000 21,800 5,400 167,400 1,900 187,200 200	100  ITA  1929 Pounds 42,500 37,400 102,800 600 115,300 (17)1,400  WI 1929 Pounds 30,800	43,700 (11)297,900 (11)297,900 (11)297,900 (1930 Pounds 44,800 73,100 9,000 94,600 3,900 13,600 (18)4,900 HITE CLON	from Belgiu GRASS 1931 Pounds 39,800 (14)67,600 90,100 2,300 600 VER 1931 Pounds	12) 201,600 m)  1932 Pounds 18,200 10,400 45,400 500 600	1933 Pounds 14,000 (15)13,400 7,200 200 6,500 (19)1,000  1933 Pounds 36,500	1934 Pounds 
Argentina Denmark France Great Britain Ireland The Netherlands. New Zealand Other countries  Czechoslovakia Denmark	220,300 54,800 1928 Pounds 72,000 21,800 5,400 167,400 1,900 187,200 200	100  ITA  1929 Pounds 42,500 37,400 102,800 600 115,300 (17)1,400  WI  1929 Pounds 30,800 26,400	43,700 (11)297,900 (11)297,900 (1930 Pounds 44,800 73,100 9,000 94,600 3,900 13,600 (18)4,900 HITE CLOV 1930 Pounds	from Belgiu GRASS 1931 Pounds 39,800 (14)67,600 90,100 2,300 600 VER 1931 Pounds	12) 201,600 m)  1932 Pounds 18,200 10,400 45,400 500 600	1933 Pounds  14,000  (15)13,400 7,200 200 6,500 (19)1,000	1934 Pounds 
Argentina Denmark France Great Britain Ireland The Netherlands. New Zealand Other countries  Czechoslovakia Denmark France	220,300 54,800  1928 Pounds 72,000 21,800 5,400 167,400 1,900 187,200 200  1928 Pounds 24,400	100  ITA  1929 Pounds 42,500 37,400 102,800 600 115,300 (17)1,400  WI  1929 Pounds 30,800 26,400 400	43,700 (11)297,900 (11)297,900 (1930 Pounds 44,800 73,100 9,000 94,600 3,900 13,600 (18)4,900 HITE CLOV 1930 Pounds 30,900	from Belgiu GRASS  1931 Pounds 39,800 (14)67,600 90,100 2,300 600 VER  1931 Pounds	12) 201,600 m)  1932 Pounds 18,200 10,400 45,400 500 600	1933 Pounds 14,000 (15)13,400 7,200 200 6,500 (19)1,000  1933 Pounds 36,500 7,900	1934 Pounds 6,000 (16)4,500 4,500 200 11,200  1934 Pounds
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Argentina Denmark France Great Britain Ireland The Netherlands. New Zealand Other countries  Czechoslovakia Denmark France Germany Great Britain	220,300 54,800  1928 Pounds 72,000 21,800 5,400 167,400 1,900 187,200 200  1928 Pounds 24,400	100  ITA  1929 Pounds 42,500 37,400 102,800 600 115,300 (17)1,400  W1 1929 Pounds 30,800 26,400 400 21)1,310,200 (2 115,500	43,700 (11)297,900 (11)297,900 (130) Pounds 44,800 73,100 9,000 94,600 3,900 13,600 (18)4,900 HITE CLOV 1930 Pounds 30,900	from Belgiu GRASS  1931 Pounds 39,800 (14)67,600 90,100 2,300 600 VER  1931 Pounds	12) 201,600 m)  1932 Pounds 18,200 10,400 45,400 500 600	1933 Pounds 14,000 (15)13,400 7,200 200 6,500 (19)1,000  1933 Pounds 36,500 7,900 (20)696,700 (20)17,300	1934 Pounds 
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Argentina	220,300 54,800  1928 Pounds 72,000 21,800 5,400 167,400 1,900 187,200 200  1928 Pounds 24,400	100  ITA  1929 Pounds 42,500 37,400 102,800 600 115,300 (17)1,400  WI  1929 Pounds 30,800 26,400 400 21)1,310,200 (2 115,500 1,600	43,700 (11)297,900 (11)297,900 (1930 Pounds 44,800 73,100 9,000 94,600 3,900 13,600 (18)4,900 HITE CLOV 1930 Pounds 30,900	from Belgiu  GRASS  1931 Pounds	12) 201,600 m)  1932 Pounds 18,200 10,400 45,400 500 600	1933 Pounds 14,000 (15)13,400 7,200 200 6,500 (19)1,000  1933 Pounds 36,500 7,900 (20)696,700 (20)17,300 40,700	1934 Pounds 
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Argentina	220,300 54,800  1928 Pounds 72,000 21,800 5,400 167,400 1,900 187,200 200  1928 Pounds 24,400	100  ITA  1929 Pounds 42,500 37,400 102,800 600 115,300 (17)1,400  WI  1929 Pounds 30,800 26,400 400 21)1,310,200 (2 115,500 1,600	43,700 (11)297,900 (11)297,900 (1930 Pounds 44,800 73,100 9,000 94,600 3,900 13,600 (18)4,900 HITE CLOV 1930 Pounds 30,900	from Belgiu  GRASS  1931 Pounds	12) 201,600 m)  1932 Pounds 18,200 10,400 45,400 500 600	1933 Pounds 14,000 (15)13,400 7,200 200 6,500 (19)1,000  1933 Pounds 36,500 7,900 (20)696,700 (20)17,300 40,700	1934 Pounds 
Argentina	220,300 54,800  1928 Pounds 72,000 21,800 5,400 167,400 1,900 187,200 200  1928 Pounds 24,400	100  ITA  1929 Pounds 42,500 37,400 102,800 600 115,300 (17)1,400  WI  1929 Pounds 30,800 26,400 400 21)1,310,200 (2 115,500 1,600 924,200	43,700 (11)297,900 (11)297,900 (130) Pounds 44,800 73,100 9,000 94,600 3,900 13,600 (18)4,900 HITE CLOV 1930 Pounds 30,900 22)1,261,900 25,200 18,400 941,600	from Belgiu  GRASS  1931 Pounds	12) 201,600 m)  1932 Pounds 18,200 10,400 45,400 500 600  1932 Pounds (20) 30,600 20) 494,200 (20) 23,900 6,500 335,100 2,200	1933 Pounds 14,000 (15)13,400 7,200 200 6,500 (19)1,000  1933 Pounds 36,500 7,900 (20)696,700 (20)17,300 40,700 1,077,100	1934 Pounds 
Argentina	220,300 54,800  1928 Pounds 72,000 21,800 5,400 167,400 1,900 187,200 200  1928 Pounds 24,400	100  ITAI  1929 Pounds 42,500 37,400 102,800 600 115,300 (17)1,400  WI  1929 Pounds 30,800 26,400 400 21)1,310,200 (2 115,500 1,600 924,200 800  ALL OTHER	43,700 (11)297,900 (11)297,900 (1930 Pounds 44,800 73,100 9,000 94,600 3,900 13,600 (18)4,900 HITE CLOV 1930 Pounds 30,900 22)1,261,900 25,200 18,400 200 941,600	from Belgiu  GRASS  1931 Pounds	12) 201,600 m)  1932 Pounds 18,200 10,400 45,400 500 600	1933 Pounds 14,000 (15)13,400 7,200 200 6,500 (19)1,000  1933 Pounds 36,500 7,900 (20)696,700 (20)17,300 40,700 1,077,100 66,700	1934 Pounds
Argentina	220,300 54,800  1928 Pounds 72,000 21,800 5,400 167,400 1,900 187,200 200  1928 Pounds 24,400	100  ITAI  1929 Pounds 42,500 37,400 102,800 600 115,300 (17)1,400  WI  1929 Pounds 30,800 26,400 400 21)1,310,200 (2 115,500 1,600 924,200 800  ALL OTHER 1929	43,700 (11)297,900 (11)297,900 (1930 Pounds 44,800 73,100 9,000 94,600 3,900 13,600 (18)4,900 HITE CLOV 1930 Pounds 30,900 22)1,261,900 25,200 18,400 200 941,600 R FORAGE 1930	from Belgiu  GRASS  1931 Pounds	12) 201,600 m)  1932 Pounds 18,200 10,400 45,400 500 600 1932 Pounds (20) 30,600 20) 494,200 (20) 23,900 6,500 335,100 2,200 CDS 1932	1933 Pounds 14,000 (15)13,400 7,200 200 6,500 (19)1,000  1933 Pounds 36,500 7,900 (20)696,700 (20)17,300 40,700 1,077,100 66,700	1934 Pounds 
Argentina	220,300 54,800  1928 Pounds 72,000 21,800 5,400 167,400 1,900 187,200 200  1928 Pounds 24,400	100  ITAI  1929 Pounds 42,500 37,400 102,800 600 115,300 (17)1,400  WI  1929 Pounds 30,800 26,400 400 21)1,310,200 (2 115,500 1,600 924,200 800  ALL OTHER 1929 Pounds	43,700 (11)297,900 (11)297,900 (1930 Pounds 44,800 73,100 9,000 94,600 3,900 13,600 (18)4,900 HITE CLOV 1930 Pounds 30,900 22)1,261,900 25,200 18,400 200 941,600 R FORAGE 1930 Pounds	from Belgiu  GRASS  1931 Pounds	12) 201,600 m)  1932 Pounds 18,200 10,400 45,400 500 600 1932 Pounds (20) 30,600 20) 494,200 (20) 23,900 6,500 335,100 2,200  DS 1932 Pounds	1933 Pounds 14,000 (15)13,400 7,200 200 6,500 (19)1,000  1933 Pounds 36,500 7,900 (20)696,700 (20)17,300 40,700 1,077,100 66,700  1933 Pounds	1934 Pounds 
Argentina	220,300 54,800  1928 Pounds 72,000 21,800 5,400 167,400 1,900 187,200 200  1928 Pounds 24,400	100  ITAI  1929 Pounds 42,500 37,400 102,800 600 115,300 (17)1,400  WI  1929 Pounds 30,800 26,400 400 21)1,310,200 (2 115,500 1,600 924,200 800  ALL OTHER 1929	43,700 (11)297,900 (11)297,900 (1930 Pounds 44,800 73,100 9,000 94,600 3,900 13,600 (18)4,900 HITE CLOV 1930 Pounds 30,900 22)1,261,900 25,200 18,400 200 941,600 R FORAGE 1930 Pounds 8,500	from Belgiu  GRASS  1931 Pounds	12) 201,600 m)  1932 Pounds 18,200 10,400 45,400 500 600 1932 Pounds (20) 30,600 20) 494,200 (20) 23,900 6,500 335,100 2,200 CDS 1932	1933 Pounds 14,000 (15)13,400 7,200 200 6,500 (19)1,000  1933 Pounds 36,500 7,900 (20)696,700 (20)17,300 40,700 1,077,100 66,700	1934 Pounds 
Argentina	220,300 54,800  1928 Pounds 72,000 21,800 5,400 167,400 1,900 187,200 200  1928 Pounds 24,400	100  ITAI  1929 Pounds 42,500 37,400 102,800 600 115,300 (17)1,400  WI  1929 Pounds 30,800 26,400 400 21)1,310,200 (2 115,500 1,600 924,200 800  ALL OTHER 1929 Pounds 368,900	43,700 (11)297,900 (11)297,900 (1930 Pounds 44,800 73,100 9,000 94,600 3,900 13,600 (18)4,900 HITE CLOV 1930 Pounds 30,900 22)1,261,900 25,200 18,400 200 941,600 R FORAGE 1930 Pounds	from Belgiu  GRASS  1931 Pounds	12) 201,600 m)  1932 Pounds 18,200 10,400 45,400 500 600  1932 Pounds (20) 30,600 20) 494,200 (20) 23,900 6,500 335,100 2,200  DS  1932 Pounds 200	1933 Pounds 14,000 (15)13,400 7,200 200 6,500 (19)1,000  (20)696,700 (20)17,300 40,700 1,077,100 66,700  1933 Pounds 1,600 100 100	1934 Pounds 

<sup>(1) 10,900</sup> lbs. of Polish origin. (2) Of Polish, Hungarian and Roumanian origin. (3) 222,000 lbs. of European Russian origin; 226,600 lbs. of Polish origin; 14,400 lbs. of Roumanian origin; 2,200 lbs. of French origin. (4) 300,800 lbs. of Polish origin. (5) 43,900 lbs. of European Russian origin; 51,200 lbs. of American goods returned. (6) American goods returned. (8) Of European Russian origin. (9) 65,100 lbs. from Hungary; 488,900 lbs. of European Russian origin. (10) 21,800 lbs. of European Russian origin. (11) 250,400 lbs. from Estonia (of European Russian origin); 43,000 lbs. from Hungary; 4,400 lbs. from Sweden; 100 lbs. from Australia. (12) 146,500 lbs. from Belgium; 55,000 lbs. from European Russia; 100 lbs. from Ireland. (13) 252,100 lbs. from Belgium; 343,300 lbs. from Hungary; 4,500 lbs. from Sweden. (14) 4,400 lbs. of Irish origin. (15) 13,200 lbs. of Irish origin. (16) Of Irish origin. (17) 1,000 lbs. of Dutch origin. (18) 4,500 lbs. from Germany (of Irish origin). (19) Of Danish origin. (20) Partly of Polish origin. (21) 111,700 lbs. of Polish origin; 12,000 lbs. of Czechoslovakian origin. (22) 26,100 lbs. of Polish origin; 11,000 lbs. of Polish origin; 4,500 lbs. of Hungarian origin. (25) 21,400 lbs. American goods returned (foxtail millet seed). (26) Of Polish origin. (28) Of this, 269,700 lbs. were Hungarian vetch seed.

#### Tariff Rates Now in Effect

Approved by U. S. Congress, June 17, 1930

The following paragraphs from the Tariff Act of 1930 pertain to Seeds, Bulbs and Nursery Stock

Par. 722. Barley, hulled or unhulled, 20 cents per bushel of forty-eight pounds; barley malt, 40 cents per one hundred pounds; pearl barley, patent barley and barley flour, 2 cents per pound.

Par. 723. Buckwheat, hulled or unhulled, 25 cents per one hundred pounds; buckwheat flour and grits or

pounds; buckwheat flour and grits or groats, one-half of one cent per pound.

Par. 724. Corn or maize, including cracked corn, 25 cents per bushel of fifty-six pounds; corn grits, meal, and flour, and similar products, 50 cents per one hundred pounds.

Par. 726. Oats, hulled or unhulled, 16 cents per bushel of thirty-two pounds; unhulled ground oats, 45 cents per one hundred pounds; oatmeal, rolled oats, oat grits, and similar oat products, 80 cents per one hundred pounds. pounds.

pounds.

Par. 727. Paddy or rough rice, 1½ cents per pound; brown rice (hulls removed, all or in part), 1½ cents per pound; milled rice (bran removed, all or in part), 2½ cents per pound; broken rice, which will pass readily through a metal sieve perforated with round holes five and one-half sixty-fourths of one inch in diameter, and rice meal, flour, polish, and bran, five-eighths of 1 cent per pound.

flour, polish, and bran, five-eighths of 1 cent per pound.

Par. 728. Rye, 15 cents per bushel of fifty-six pounds; rye malt, 40 cents per one hundred pounds; rye flour and meal, 45 cents per one hundred pounds.

Par. 729. Wheat, 42 cents per bushel of sixty pounds; wheat, unfit for human consumption, 10 per centum ad valorem; wheat flour, semolina, crushed or cracked wheat, and similar wheat products not specially provided for, \$1.04 per one hundred pounds.

#### Bulbs

Par. 753. Tulip bulbs, \$6 per thousand; hyacinth bulbs, \$4 per thousand; lily bulbs, \$6 per thousand; narcissus bulbs, \$6 per thousand; crocus corms, \$2 per thousand; lily of the valley pips, \$6 per thousand; all other bulbs, roots, rootstocks, clumps, corms, tubers and herbaceous perennials, imported for horticultural purposes, 30 per centum ad valorem. tum ad valorem.

Nursery Stock

Nursery Stock

Par. 754. Seedlings and cuttings of Manetti, multiflora, brier, rugosa, and other rose stock, all the foregoing not more than three years old, \$2 per thousand; rose plants, budded, grafted, or grown on their own roots, 4 cents each; cuttings, seedlings, and grafted or budded plants of other deciduous or evergreen ornamental trees, shrubs, or vines, and all nursery or greenhouse stock, not specially provided for, 25 per centum ad valorem.

Par. 755. Seedlings, layers, and cuttings of apple, cherry, pear, plum, quince, and other fruit stocks, \$2 per thousand; grafted or budded fruit trees, cuttings and seedlings of grapes,

trees, cuttings and seedlings of grapes, currants, gooseberries, or other fruit vines, plants or bushes, 25 per centum

ad valorem.

Par. 762. Oil-bearing seeds and materials: Castor beans, one-half of 1 cent per pound; flaxseed, 65 cents per bushel of fifty-six pounds; poppy seed, 32 cents per one hundred pounds; sunflower seed, 2 cents per pound; apricot

and peach kernels, 3 cents per pound; soy beans, 2 cents per pound; cotton-seed, one-third of 1 cent per pound.

#### Farm Seeds

Par. 763. Grass seeds and other forage crop seeds: Alfalfa, 8 cents per pound; alsike clover, 8 cents per pound; crimson clover, 2 cents per pound; red clover, 8 cents per pound; white and ladino clover, 6 cents per pound; sweet clover, 4 cents per pound; clover, not specially provided for, 3 cents per pound; millet, 1 cent per pound; orchard grass, 5 cents per pound; rye grass, 3 cents per pound; timothy, 2 cents per pound; hairy vetch, 3 cents per pound; bent-grass (genus agrostis), 40 cents per pound; bluegrass, 5 cents per pound; tall oat, 5 cents per pound; all other grass and forage crop seeds not specially provided for, 2 cents per pound: "Provided"—That no allowance shall be made for dirt or other impurities in seed of any kind.

Garden Seeds

#### Garden Seeds

Garden Seeds

Par. 764. Other garden and field seeds: Beet (except sugar beet), 4 cents per pound; cabbage, 12 cents per pound; canary, 1 cent per pound; carrot, 4 cents per pound; cauliflower, 25 cents per pound; celery, 2 cents per pound; kale, 6 cents per pound; kohlrabi, 8 cents per pound; mangelwurzel, 4 cents per pound; mushroom spawn, 1 cent per pound; onion, 15 cents per pound; parsley, 2 cents per pound; parsnip, 4 cents per pound; readish, 6 cents per pound; spinach, 1 cent per pound; tree and shrub, 8 cents per pound; turnip, 5 cents per pound; flower, 6 cents per pound; all other garden and field seeds not specially provided for, 6 cents per pound: "Provided"—That the provisions for seeds in this schedule shall include such seeds whether used for pound: "Provided"—That the provisions for seeds in this schedule shall include such seeds whether used for planting or for other purposes.

Onion Sets—2½ cents per pound.

#### Beans and Peas

Par. 765. Beans, not specially provided for, and black-eye cow-peas: Green or unripe, 3½ cents per pound; dried, 3 cents per pound; in brine, 3 cents per pound; prepared or preserved in any manner, 3 cents per pound on the entire contents of the container.

Par. 769. Peas and chickpeas or garbanzos: Green or unripe, 3 cents per

Par. 769. Peas and chickpeas or garbanzos: Green or unripe, 3 cents per pound in the case of peas, and, in the case of chickpeas or garbanzos, 2 cents per pound; dried, 1% cents per pound; split, 2½ cents per pound; prepared or preserved in any manner, 2 cents per pound on the entire contents of the centainer container

Oil-bearing seeds and hempseed, kapok seed, tung Par. 1727. Oil-bearing seeds and nuts: Copra, hempseed, kapok seed, palm nuts, palm-nut kernels, tung nuts, rapeseed, rubber seed, perilla and sesame seed; seeds and nuts, not specially provided for, when the oils derived therefrom are free of duty. (See following note.)

following note.)
Note: In the opinion of the American Note: In the opinion of the American Seed Trade Association counsel, Curtis Nye Smith, Esq., seedsmen should declare hempseed and all varieties of rapeseed under this Par. 1727, free of duty, and not under Pars. 763 or 764.

#### ROSS SEED CO.

INCORPORATED

LOUISVILLE, KY.

Established 1895

**EXPORTERS - IMPORTERS** and JOBBERS.of

ORCHARD GRASS **BLUEGRASS** REDTOP **CLOVERS** KOREAN (Lespedeza) TIMOTHY SOYBEANS COWPEAS, ETC.

Car lots or less

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# WE Specialize IN

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# BRENT'S PREMIUM SEEDS

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LEXINGTON KENTUCKY **>> >>** 

### DAVENPORT SEED CO.

Davenport, Iowa

Headquarters IOWA Grown TIMOTHY SEED RED CLOVER SOY BEANS SWEET CLOVER KOREAN and HARBIN LESPEDEZA ALFALFA

Carlots a Specialty

Wholesale Field and Grass Seeds

	DANDODMA OD MINOMINI ADDD
EXPORTS OF CLOVER SEED	EXPORTS OF TIMOTHY SEED
(ALL KINDS)	Years Ending June 30
Years Ending June 30	Year Pounds
Year Pounds	
1910 6,977,685	1910
1911	1911 7,893,121
1912	1912
1913 5,407,594	
1914	1914
1915	1915
1916	1916
1917	191715,139,913
1918	1918
1919	1919
1920 5,061,792	1920
1921 5,419,838	192114,989,518
1922	1922
1923	1923
1924	1924
1925	1925
1926	1926
1927	192714,060,447
1928	1928
1929 615,045	1929
1930	1930
1931	1931
1932	1932
1933 367,902	19335,481,262
1934 3,568,168	1934 5,378,920
EXPORTS OF RED CLOVER	EXPORTS OF ALFALFA SEED
SEED	By Calendar Years
By Calendar Years	0
Prepared from data obtained by the Bureau	Prepared from data obtained by the Bureau of
of Foreign and Domestic Commerce,	Foreign and Domestic Commerce, U. S.
U. S. Department of Commerce	Department of Commerce
Year Pounds	Year Pounds
1923	1923
1924	1924
1925	1925
1926	1926
1927	1927
1928	1928
1929	1929
1930	1930
4004	1001
1931	1931
1932	1932, 1,304,041
1933	1933 ,

# WM. G. SCARLETT & CO.

\* Six months ended June 30, 1934.

1933 ......1,198,796 

\* Six months ended June 30, 1934.

OFFICE & SEED CLEANING PLANT

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BALTIMORE, MD., U. S. A.

Cable Address, "Scarlett, Baltimore"

#### GRASS & FIELD SEEDS BIRD SEEDS LAWN SEEDS

KENTUCKY BLUE GRASS
WESTERN GROWN

KANSAS ALFALFA

VERIFIED ORIGIN

T. LEE ADAMS SEED CO.

Since 1882

KANSAS CITY, MO.

Shippers of
SWEET CLOVER
BROMUS
ALFALFA
SEED GRAIN
POTATOES

INTERSTATE
SEED & GRAIN CO.
FARGO, N. D.

We specialize in the following

#### OREGON GROWN SEEDS

Hairy Vetch Common Vetch Hungarian Vetch

Austrian Peas Ryegrass Mesquite Red Clover Alsike Clover

Write for prices on prompt and future shipment Wholesale only

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Chicago

#### SEED VERIFICATION SERVICE HAS BIGGEST YEAR

(Prepared by U. S. Bureau of Agricultural Economics)

ORE ALFALFA SEED was verified as to origin during the Seed Verification Service year which ended July 31, 1934, than in any year since the inception of the Service in 1927. This is significant because the 1933 production of alfalfa seed was below average and the fees were increased from 2 cents per 100 pounds to 3 cents. The growth of the Service indicates an increasing popularity for verified-origin seed.

During the past year the new rules, regulations, and instructions governing origin verification of seed were in effect, and in the main they were found to be satisfactory. They incorporated three important changes, namely, the limiting of the origin of alfalfa seed to three states or less, the revision of the old form of shipper's declaration, and the raising of the fees. These changes have

been fruitful of results.

Those who have called attention to the undesirability of multiple origins of alfalfa seed for the last few years will be glad to learn that this situation has almost been entirely corrected by the regulation with respect to the number of states of origin. During the last (verification) year 89.86% of the verified-origin alfalfa seed offered for sale carried certificates showing the origin to be a single state, 6.95% indicated two states, 2.94% indicated three states, and 0.25% indicated four or more states. Practically all the lots the origins of which were four or more states represented seed carried over from the previous year, when it was permissible to prepare such blends. Last year, as may be seen from the foregoing figures, approximately 97% of all the verified-origin alfalfa seed sold was of either one state or two states of origin.

Kansas again led all other states as the principal source (origin) of verified-origin alfalfa seed that was offered for sale during the 1933-34 season. It was, however, closely pressed by Montana, these two states accounting for 46% of all the alfalfa seed verified. Other states in the order of the quantities verified are: Nebraska, Idaho, South Dakota, Utah, Michigan, Minnesota, and Oklahoma. Besides the states mentioned, there are 13 other states that produced seed that was verified as to origin. In this connection, it might be well to mention that seed from any state of production is eligible for verification of origin, but that the bulk of the seed verified comes from northern and central-producing districts.

The raising of the fees from 2 cents to 3 cents per 100 pounds put the Service on a self-supporting basis. During the last season 2,005 inspection certificates were issued, the fees for which amounted to \$18,-293.28, compared with \$8,907.86 the year be-

fore and \$8,136.07 two years ago. Approximately 44,000,000 pounds of alfalfa and 17,000,000 pounds of red clover seed were verified during the 1933-34 season, compared with 25,000,000 and 19,000,000 pounds, respectively, during the preceding season.

The quality of the verified-origin seed sold in 1933-34 was, as in previous years, better than that of non-verified origin seed. Approximately 80% of the alfalfa and nearly 98% of the red clover samples collected were of good to very good quality, and less than 3% of the alfalfa and only 1/3 of 1% of the red clover samples were below fair in quality. This indicates that at this time there is little or no need of making further restriction regarding the quality of verified-origin seed than that which has been in effect almost since the Service began, namely, that tag certificates should not accompany shipments of screenings or other

low-grade seed.

The revision of the old form of shipper's declaration made that form more understandable by the hundreds of country shippers who had occasion to use it. It has been found necessary, however, to make additional restrictions relative to the acceptability of these declarations. Up to the present season (1934-35) declarations of origins were accepted from general seed dealers not enrolled in the Service but who were situated in a surplus alfalfa seed producing district and were keeping proper records and otherwise meeting the requirements of the Service. At the present time, in addition to the former requirements, these dealers are required to show on tags the state or states of origin and the lot number or other identification of every lot of alfalfa seed shipped by them if they wish to continue to furnish declarations of origin. This will tend to decrease the quantity handled of origins undesirable for sowing in sections where these dealer-shippers are situated and make for fairer competition between them and verified-origin seed dealers who are required to accompany all shipments of alfalfa seed, except state-certified and sealed seed as well as imported and low-grade seed, with certificates showing the lot identification and origin.

The enrollment for the 1934-35 season is even greater than that of last season, when there were 68 verified-origin seed dealers. Only one of those dealers has withdrawn from the Service, and his place has been taken by 19 others. The 86 dealers, situated in 24 states, now enrolled are expected to handle more than 90% of the alfalfa seed that enters commerce. Up to the end of October, much more alfalfa seed was verified as to origin than during the corresponding period in any previous year.

# CHARACTERISTIC ADAPTATIONS OF THE MORE IMPORTANT TURF GRASSES

(Reprinted from Golfdom and Rutgers University Greenkeeping Short Course)

Name of Grass Scientific	Grass Common	Time Required to Produce Good Turf	Wet or Dry Soils	Sandy or Clayey Solls Aci	Acid Soils	Cold or Hot Weather	Uses	Remarks
Agrostis alba or Agrostis palustris or Agrostis stolonifera major	Redtop harsh white southern, Eng- lish bent or herd grass	One	Adapted to wet and tolerant of dry soils	Adapted to clayey soils	Tolerant	Resistant to cold and fairly tolerant of heat	Fairways, greens and lawns	Sod forming habit of growth. Lasts about I year under close mowing. Used chiefly as a temporary grass.
Agrostis tenuis or Agrostis capillaris or Agrostis vulgaris	Rhode Island bent, Colonial bent, Brown top, "Golfalawn," "Astoria bent" and	One season	Adapted to both moist and dry soils	Adapted to clay ey and sandy soils if well drained	Tolerant	Resistant to cold and fairly to lerant of heat	Greens, fairways and lawns	Probably used more extensively than any other seeded bent. German mixed bent contains about 75% of it. Sod farming habit of growth.
Agrostis Stolonifera Maritima	Creeping bent, Seaside bent and "Fiorin"	One season from seed; 2 months from stolons	Adapted to moist soils	Adapted to clayey and tolerant of sandy soils	Very	Resistant to cold but not hot weather	Greens, lawns and fairways	German mixed bent contains about 2% of it. Seaside bent also called Agrostis maritima. Sod forming habit of growth.
Agrostis Canina	Velvet, dog brown bent	One	Adapted to moist soils	Adapted to to clayer soils	Very	Resistant to cold but not hot weather	Greens and lawns	Adapted to about same region as Kentucky blue grass. German mixed bent contains about 15% of it. Sod forming habit of growth.
Poa pratensis	Kentucky blue	Two	Adapted to to moist soils	Adapted to clayey soils	Tolerant if soil is rich and well drained	Resistant to cold but not hot weather	Fairways and lawns	Requires fertile soils and responds to lime treatments. Sod forming habit of growth. Will not stand close mowing.
Poa	Canada blue	Two	Tolerant of dry soils	Adapted to clayey soils		Resistant to cold and tolerant of hot weather	Fairways and roughs	Use only when soil is thin and poor. Does well on rocky or gravelly soils. Not as good as Kentucky blue or redtop on good soils.
Poa trivialis	Rough-stalk meadow grass or bird grass	Two	Adapted to to moist soils	Adapted to clayey soils	Tolerant if soil is rich and well drained	Resistant to cold but not hot weather	Fairways and lawns	Best of all grasses for shady lawns. Sod forming habit of growth.
Poa	Annual blue grass, spear grass or meadow grass	One	Adapted to to moist soiis	Adapted to clayey soils	Tolerant	Resistant to cold but not hot weather	Greens, fairways and lawns	Sod forming habit of growth.
Festuca rubra	Red fescue	One	Adapted to moist and tolerant of dry soils	Adapted to sandy loams and tolerant of clayey soils	Tolerant	Resistant to cold and fairly tolerant of heat	Greens, fairways and iawns	2 commercial var. of red fescue are creeping r'fescue (F rubra var. genuina) and New Zealand or Chewings' fescue (F. rubra var. fallax). One of the best grasses for shady lawns, sod. F. habit of growth.
Festuca	Sheep's fescue		Very tolerant of dry soils	Adapted to sandy soils	Tolerant	Resistant to cold and toi-	Rough	Especially adapted to soils which are thin, sandy and rocky. Bunch forming habit of growth.
Festuca duriuscuia	Hard Fescue		Very tolerant of dry soils	Adapted to sandy soils	Toierant	Resistant to cold and toleerant of heat	Rough	Variety of sheep's fescue. Bunch forming habit of growth.
Festuca caillata or Festuca tenuifola	Fine-leaved. fescue		Tolerant of dry soils	Adapted to sandy soils	Tolerant	Resistant to cold and toleerant of heat	Lawns	Variety of sheep's fescue. Thrives well in shady lawns. Bunch torming habit of growth.

#### SEEDSMEN'S LEGAL QUESTIONS ANSWERED

During the past seventeen years Seed World has conducted a Legal Department, in which subscribers' questions have been answered and current court decisions of interest to the seed trade have been discussed. Believing that the questions that have arisen most frequently in the past are likely to continue to be encountered by the seed trade we have had our attorney, Herbert Bebb, prepare the following selection and condensation from the Legal Department material.

#### Catalog Delay

Question: We figure that we have lost some sales due to failure of our printer to deliver our catalogs on the agreed date. Are we entitled to recover such lost profits?

ANSWED: In Profits?

ANSWER: In Drumm Seed Co. vs. Mc-Farland, 30 S. W. 93, the Court held that before such lost profits can be allowed "the amount of loss thus sustained must be shown with reasonable accuracy and the instances in which it would be possible to make this proof must necessarily be exceptional." In view of the difficulty in proving such damages we advise the inclusion of a liquidated damages clause in important printing contracts.

#### Commission Seeds

Question: What protection does the whole-saler have against a bulk sale of commission seed stand and packets or against their being levied upon by a judgment credit of the retail dealer who has them on consignment?

ANSWER: The consignee of a stand of commission seeds is legally a "Bailee". In our opinion his authority to sell the packets separately at retail does not amount to a representation by the wholesaler that he has authority to sell or pledge the entire stand. See Romeo vs. Martucci, 72 Con. 504.

#### Corporate License

Question: In connection with our commission seed business should our corporation be licensed to do business in those states in which we will place our stands or boxes?

ANSWER: By the weight of authority sales by a consignee of goods received from a consignor out of the state are regarded as Interstate Commerce and hence a corporate consignor need not be licensed to do business in the state in which the sales are made. See Butler Brothers vs. U. S. Rubber Company, 156 Federal 1.

#### Crop Failure

Question: Does a crop failure excuse us from furnishing strawberry plants which we have contracted to furnish at this season?

ANSWER: No. If you unconditionally undertook to furnish a certain number of plants without stating where they were coming from or otherwise connecting your liability with the supply then you would remain liable despite the crop failure.

#### Damages

Question: What is the proper measure of damages for loss of crop because of faulty seed?

ANSWER: Where a crop is produced upon which expected profits can be estimated the proper measure of damages is the difference in value between the crop grown and the crop that would have been grown if the seed had been according to contract. If no crop is produced then the measure of damages includes (1) the purchase price; (2) the rental value of the land; (3) the labor in preparing, sowing, cultivating; (4) hauling the seed from the place of purchase. See Lundquist vs. Jennison, 214 Pac. 67.

#### Disclaimer, Custom

Question: Where there is no non-warranty clause in the written contract, can the seedsman defend on the theory that the parties must be understood to have dealt with reference to the general non-warranty custom? ANSWER: Yes. The tendency of recent decisions, particularly in the west, has been strongly in the direction of recognizing the non-warranty custom, thus in effect incorporating the disclaimer clause into seed contracts. The most recent decision along this line was Hoover vs. Utah Nursery Company, 7 Pac. (2nd) 270, in which earlier authorities are discussed, particularly the exhaustive opinion in Miller vs. Germain Seed & Plant Company, 193 Cal. 162. Other cases are cited in 37 LRANS 79; An. Cas. 1918 B71; 16 ALR. 859, which will be found in any large law library. Most of the cases giving effect to the disclaimer custom have been from west of the Mississippi River but in 1931 New York was added to the list by an important decision in Lumbrazo vs. Woodruff, 256 N. Y. 92. Some of the refusals to give effect to the disclaimer custom may be attributed to failure of the seedsman and his attorneys to make sufficient proof as to the existence of the custom. Such a case will be found in National Seed Company vs. Leavell, 259 S. W. 1035. In American Warehouse Company vs. Ray (1912 Texas Civil Appeals), 150 S. W. 763, it was held that the disclaimer custom could have no effect unless it was to show that the plaintiff "had knowledge of such custom or contracted with it in view."

#### Disclaimer, Location

Question: Where should the disclaimer be placed?

ANSWER: We advise placing the disclaimer on your letterheads and on all forms on which contracts may be drawn in such a location that it will read as a part of the contract. Some cases hold that obscurely printed conditions above the salutation upon a letterhead will not be read into a contract written thereon. One such case is Sturtevant Co. vs. Fireproof Co., 216 N. Y. 199. On the other hand, it was held in Poel vs. Brunswick Co., 216 N. Y. 310, that such printed additions, if sufficiently prominent, will be taken as part of the contract. Rodesch vs. Kirkpatrick Coal Company, 41 Fed. (2nd) 518, is a similar case.

Placing the disclaimer on tags and invoices is not alone enough since on most sales the contract has been closed before

voices is not alone enough since on most sales the contract has been closed before these papers come to the buyer's attention. See Edgar vs. Breck, 172 Mass. 581, and Werd vs. Valker, 176 N. W. 129.

#### Disclaimer, Relation to Pure Seed Law

Question: Is it permissible to put the standard disclaimer on the tag required by the uniform Pure Seed Law!

ANSWER: We understand that some state officials have taken the position that such use of the disclaimer is inconsistent with the spirit of the requirement that certain information be placed on the tag. In Mangelsdorf Seed Company vs. Busby (1926 Okla.), 247 Pac. 410, the Court held that the seed company "had a clear right to meet this issue of implied warranty by proof tendered of an express non-warranty." Although the presence of the disclaimer on a tag was not involved, the case did arise

- The Cost of the Seed is the smallest item in the production of a crop.
- The **Best Seed** is the **Cheapest** in the end.
- The Quality of RICE'S SEEDS has been an accepted standard of value in the seed trade for over 100 years.

Rice Seed Co.

CAMBRIDGE

NEW YORK

- Wholesale Growers of Garden Seeds.
- Our stocks are complete and well balanced.
- You will be pleased with our quotations on your list of requirements.
- Quick Mid-West service from our branch at CARSON CITY, MICHIGAN, on your orders sent there.

ON YOUR SEED REFOR EITHER PROMPT DELIVERY. WE KNO THUMPT OR FUTURE
WE KNOW WE CAN
IN BOTH QUALITY
ND PRICE AND PRICE

# **Our Selected** Strains of IUMATO SEED

are certified by the NEW JERSEY DEPARTMENT OF AGRICULTURE

We are growers for the wholesale seed trade only of carefully selected and tried strains of

Cucumber Pepper Egg Plant Squash

Pumpkin

Muskmelon « » Watermelon

Every shipment is backed by the Hurff reputation

EDGAR F. HURFF

Swedesboro, N. J.

under the Pure Seed Law and if the disclaimer can be proved when used separately, we see no legal reason why it should not appear on the tag provided it is so used as not to obscure the statutory data.

#### Disclaimer, on Retail Sales

Question: If a retailer sells over the counter seeds in packages bearing a wholesaler's disclaimer is the retailer protected by such disclaimer?

ANSWER: No. The retailer in such case would not be protected by the express disclaimer although he might defend on proof of a general custom not to warrant. See Jolly vs. Blackwell, 211 Pac. 748.

Authorities as to the liability of the

Authorities as to the liability of the producer to the ultimate consumer who purchased from a middleman are cited and discussed in 39 A. L. R. 1000 and in 17 A. L. R. 672. The editor points out that an early case permitting the sub-purchaser to enforce warranties against the producer has been repudiated and that unless the facts involve a tort liability the sub-purchaser must look only to the retailer with whom he dealt

#### Disclaimer, Standard Wording

Question: What is the official wording of the Seed Trade Disclaimer Clause!

ANSWER: "The ...... Company gives no warranty, express or implied, as to description, quality, productiveness, or any other matter of any seeds, bulbs, or plants it sells, and will not be responsible for the "The

#### Disclaimer, Variations in Wording

Question: We feel that the wording of the standard disclaimer is abrupt and harsh. We contemplate substituting a statement emphasizing the care that we take but pointing out that we have no control over conditions of cultivation. Would you approve of such changes. of such changes?

ANSWER: While we sympathize with your reluctance to employ wording which emphasizes only the negative aspects of your engagement, we nevertheless advise sticking to the standard wording. There is danger that you might fail to cover the entire ground or that your new wording might involve ambiguities that would not occur to you. More important than this is the point that the use of uniform wording by the entire trade is an advantage, first, to the trade since each seedsman using the clause is strengthening the custom theory on which many cases are being favorably decided and, second, to the individual since it is to the interest of each seedsman to bring himself squarely within the protection of this uniform custom.

#### General Statement of Law

Question: Where may I read a general introductory statement of law applicable to warranties of seeds!

ANSWER: You will find such a statement in the introduction to the annotation to Johnson vs. Foley Company, in 16 A. L. R. 859. We may summarize a part of that statement as follows. Most seed contracts are sufficiently descriptive to indicate that the subject of sale is to be used for planting. This gives rise to an obligation which some courts call an "express warranty," other an "implied warranty," and still others a "condition". Since this obligation of the seller survives acceptance at least as to defects which inspection would not disclose, the distinction is often disregarded. The fact that the buyer cannot determine by inspection whether the articles tendered by

the seller comply with the contract is the reason for the exceptional rule applied to sale of seeds that in absence of an express disclaimer a warranty will be implied.

#### Growers Contract

Question: Can you give us a good form for a contract between a seedsman and a growers

ANSWER: The form used by the Ferry-Morse Seed Company has stood the test of successful litigation in Ferry vs. Forquer, 202 Pac. 193, and Ferry vs. Smith, 209 Pac. 1066. That form is as follows:

..... Seed Co. .....State

I......agree, on the terms and conditions stated below, to raise for you, on lands of suit the quality and condition, located in Section.....Township of.......County of......and State of .......and to deliver to you at......the following seeds:

I agree properly to prepare and plant such lands with Stock Seed to be furnished by you at .....; properly to cultivate and care for the crop; to harvest, cure, separate and clean, as well as possible with ordinary farm machinery, its entire seed product, in such manner as to secure the greatest possible return of seeds suitable for Seedsman's use; and to sack and deliver all the seed to you at....., as soon as the seed can be put in suitable condition, and before November 30, 19..., without wasting, feeding, selling, reserving or allowing any portion of the crop or seed furnished to pass from my possession except as delivered to you. You are to pay all freight charges on stock seed, crop and on any hags you send me. The stock seed and seed crop produced from it is, and shall remain your property except as otherwise stated in this contract.

In order to prevent hybridization and to keep the

as otherwise stated in this contract.

In order to prevent hybridization and to keep the crop pure, I agree that during the life of this contract I will not grow Seeds of the same species for any other person, and as far as I am able to prevent it, there shall be no other plants of the same species grown within ten rods of this crop. I will take at all times every reasonable precaution to keep the crop pure and to prevent seed of any chance plants of a different variety or of a stock of the same variety different from that sent me by you, becoming mixed with seeds grown under this agreement. You or your agents may at any time enter the field and, at your own expense, make such examination, selections or rejections as you or they deem desirable for the betterment of the crop for seed purposes, and you or they shall not be liable for necessary damage, if any, to my crop resulting from such work.

You are carefully to weigh and test the crop

# Growers of QUALITY SEED

for the Wholesale Trade ~ Specialties

BEET

**ENDIVE** 

PARSLEY

PEAS

CARROT

LETTUCE

PARSNIP

**BEANS** 

CELERY

**MUSTARD** 

RADISH

**SWEET PEAS** 

CHARD

ONION SALSIFY NASTURTIUM

SHERWOOD SEED CO.

108-110 DAVIS ST.

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**Specializing** in CAREFULLY SELECTED

**STOCKS** 



**FORDHOOK** BUSH LIMA **BEANS** 

STOCK WHICH INVITES . COMPARISON

WHAT MERCHANDISE CAN THE SEED DEALER HANDLE PROFITABLY?

Ask Seed World Service Dept.

325 W. Huron St., Chicago

for any seed which you do not consider sufficiently pure, clean and dry for Seedsman's use and no credit is to be given for dirt, or for damaged or poor seed which has to be removed. In all cases, the screenings and culls are to remain the property of the party who separates them from the crop.

If so requested in writing, you shall loan for my use free of charge, suitable bags for shipping the crop, or you shall allow me full wholesale market value for all new, sound, undefaced, seamless cotton grain bags which I may buy and you receive containing the crop.

This letter, when accepted by you, shall constitute our contract, and be construed according to......laws. There are no agreements or understandings regarding the subject matter of this letter other than expressed above.

Yours truly,

.....this ..... day

Accepted at.....of.....19...

In Thiel vs. Pac. Fruit & Produce Co., 4 Pac. (2nd) 356, a seedsman was defeated because he had failed to incorporate in his contract a reservation of title such as is included in the Ferry form. See also Robinson vs. Stricklin, 73 Nebr. 242.

Loss in C1.:

Loss in Shipment
Question: Where peas are shipped under a
"shippers order" bill of lading with draft attached, which party stands the risk of loss in
course of shipment?
ANSWER: The Buyer. "As soon as the
peas arrived and were stored, the title to the
peas passed to the appellant buyer subject to
the respondent seller's right to hold the goods
until payment of the agreed purchase price."
Inland Seed Co. vs. Washington-Idaho Seed
Co., 294 Pac., 991.

#### Notice of Defects

Question: Can a buyer of warranted seed, in the face of knowledge that the seed is faulty, plant it and recover crop damage? ANSWER: No. In Tomita vs.

(Idaho), 290 Pac. 395, it was shown that an experienced potato grower knew from cutting into the seed potatoes that they were diseased, and the Court held "under these facts he cannot recover crop damage resulting from planting the diseased seed in question."

#### Plant Patents

Question: What are the statutory limitations upon plant patents?

ANSWER: The Patent Law in Sec. 4886 provides that "any person who has invented or discovered any new and useful art, machine \* \* \* or who has invented or discovered and asexually reproduced any distinct and new variety of plant, other than a tuber-propagated plant, not known or used by others may, upon payment of the fees required by law \* \* \* obtain a patent." The limitation to asexual reproduction means that the plants of most importance economically are excluded. For example, our common cereals being reproduced by seed and not by cuttings cannot be patented. The "tuber-propagated" wording is for the purpose of excluding potatoes. It should be noted that the wording of the statute requires that mechanical patents be "useful" but that this word does not appear in the phraseology relating to plant patents.

Trade Mark; Variety Name

#### Trade Mark; Variety Name

Question: We have originated a new variety of sweet corn. Can we prevent competition by trade marking the name?

ANSWER: No. The name which you give to your new variety will become in substance a descriptive name and can be used as such by any person to describe seed from the same strain. The proper function of a trade mark is simply to identify the producer or origin of goods. In general a descriptive name is not available for registration as a trade mark. See Hoyte vs. Lovett, 71 Federal 173, 178.



CLOSING FOUR DAYS PRIOR TO **ISSUE SHOWN** 

FORWARD COPY AT EARLIEST POS-SIBLE DATE. THIS WILL ENABLE US TO SUBMIT PROOFS FOR APPROVAL OR CHANGES

#### COMPLETE COVERAGE

More than 12,500,000 Buyers of Seeds, Plants, Bulbs, Nursery Stock, Agricultural & Horticultural Supplies are in Direct Sales Contact with Readers of

SEED WORLD

#### 1935 PUBLICATION DATES

#### 1935 **VOL. 37 VOL. 38** JAN. 4 JULY 5 JAN. 18 JULY 19 FEB. 1 AUG. FEB. 15 AUG. 16 AUG. 30 MAR. 1 MAR. 15 SEPT. 13 **SEPT.** 27 MAR. 29 12 APR. OCT. 11 APR. 26 OCT. 25 NOV. $\mathbf{MAY}$ 10 8. **MAY** 24 NOV. JUNE 7 DEC. 6 JUNE 21 | DEC. 20

# COMMODITIES FOR WHICH BUSHEL WEIGHTS HAVE BEEN ESTABLISHED IN MORE THAN FOUR STATES

	Common	nlv	
	Accepte		
	Weight p		
Kind	Bu.—Lb	OS.	
Alfalfa			
Barley	48	50 lbs. in California.	
		32 lbs. in Louisiana.	
Beans	_		
Beans, Castor.	46	50 lbs. in Iowa, Maryland, Nebraska and South Dakota. 48 lbs. in Florida.	
Dane Time	56	48 lbs. iii Florida.	
Beans, Lima		60 lbs. in North Carolina and Virginia.	
Beans, Soy	- 3	oo ibs. in North Caronna and Virginia.	
Bluegrass			
Bran			
Broomcorn		42 lbs. in Alabama, South Carolina and Tennessee.	
Dioomeoin	50	48 lbs. in Arkansas, Illinois, Oklahoma and Texas.	11
		30 lbs. in Kansas and North Dakota.	
		57 lbs. in Minnesota and West Virginia. 44 lbs. in North Carolina.	,
		45 lbs. in Ohio.	
Buckwheat	48	50 lbs. in Alabama, Idaho, Minnesota, Nebraska, Nevada, North Carolin	a. Ohio.
25 (1011) 11000 7777	• • • • • • • • • • • • • • • • • • • •	South Carolina, Tennessee and Wisconsin.	
		52 lbs. in Arkansas, Georgia, Illinois, Missouri, Montana, New Mexic homa and Texas.	o, Okla-
•		40 lbs. in California.	
		56 lbs. in Kentucky.	
		42 lbs. in North Dakota.	·
Canary Seed			
Clover Seed Corn, Cracked .		Α	
Corn, in Ear	70	68 lbs. in Ohio and Vest Virginia.	
Corn, Pop, in I	Ear 70	42 lbs. in Ohio.	
Corn, Shelled . Corn, Sweet		52 lbs. in California. 48 lbs. in Minnesota and North Dakota.	
com, bweer	•••	45 lbs. in Ohio.	
Cornmeal	50	48 lbs. in Arkansas, Florida, Idaho, Illinois, Iowa, Maryland, Mis Nebraska, Nevada, Ohio, Virginia and West Virginia.	ssissippi
Cottonseed	32	30 lbs. in Georgia, North Carolina, South Carolina and Virginia.	
Cottoniced		33½ lbs. in Arkansas.	
		33 lbs. in Missouri.	
72	40	28 lbs. in Tennessee	
Emmer	40	48 lbs. in Nebraska. 45 lbs. in Wyoming.	
Flaxseed	56	45 lbs. In Wyoming.	1
Hempseed	44	50 lbs. in Minnesota and North Dakota.	
		48 lbs. in Nevada.	
Herdsgrass			
Kafir Corn		50 lbs. in North Carolina and Texas.	•
Kale	12	10 lbs. in North Carolina.	
		15 lbs. in South Carolina. 30 lbs. in Tennessee.	
Millet		48 lbs. in Minnesota.	
Millet, Jap			
Oats Orchard Grass			
Peanuts		25 lbs. in Georgia.	•
		20 lbs. in Illinois, Maine, New Hampshire, South Dakota and Vermont	t <b>.</b>
		24 lbs. in Kentucky and Mississippi.	
Pens	۷0	23 lbs. in South Carolina and West Virginia.	
Peas		56 the in West Virginia	
Potatoes, Irish		56 lbs. in West Virginia.	
Potatoes, Sweet	50	55 lbs. in Alabama, Georgia, Kentucky, Minnesota and Oklahoma. 54 lbs. in Connecticut, Maine, Mississippi, New Hampshire, New York	Penn.
		sylvania, Rhode Island, South Dakota, Vermont and Wisc	onsin.
- a		56 lbs. in Florida, Michigan, Missouri, North Carolina and Virginia.	
Rape Seed Red Top			
Rice (unhulled)		44 lbs. in Maine, North Carolina and South Carolina.	
(		43 lbs. in Georgia.	
Rye	56	54 lbs. in California.	
Sorghum		57 lbs. in Minnesota, North Dakota and West Virginia.	
		56 lbs. in Florida.	
Co alt-	40	42 lbs. in Mississippi and Missouri.	
Speltz	40	48 lbs. in Nebraska. 45 lbs. in Wyoming.	
Timothy	45	60 lbs. in Arkansas.	
Wheat	60	,	
		Adventions Inden Page 190	

#### TRADE MARKS AND SLOGANS

MANY SEEDSMEN as well as manufacturers have spent years in building up a demand for their trade-marked items and buyers have for years bought on these brands. At times a buyer does not remember the name of the manufacturer or seedsman who produces a certain brand. This alphabetical list of trade-marked brands should prove useful. For names of firms using trade marks not listed here, write us.

#### **SEEDS**

cme—seeds—J. Chas. McCullough Seed Co., Cincinnati, Ohio. ero—garden, flower and field seeds—

Griswold Seed & Nursery Co., Lincoln, Nebr.

AH--garden seeds—A. Hansen, Kastrup, Denmark.

H. 291 cauliflower seed—A. Hansen,

Kastrup, Denmark. ntelope—seeds—N e Antelope—seeds Omaha, Nebr. -Nebraska Seed

-seeds-Associated Seed Growers, Inc., New Haven, Conn.

Beaver—timothy seed --Steele, Briggs

Beaver—timothy seed — Steele, Driggs Seed Co., Toronto, Ont., Can.

Best Seeds—farm and garden seeds—T.
Lee Adams Seed Co., Kansas City, Mo.

Big Chief—field seeds—Northwestern Seed
Co., Keokuk, Iowa.

Blackfoot—alfalfa seed—Idaho Grimm
Alfalfa Seed Growers Assn., Blackfoot,
Idaho Idaho.

Blackfoot—alfalfa seed—W. H. Crossland, Milwaukee, Wis. Blood Tells—seeds—Rogers Bros. Seed Co.,

Blood Tells—s Chicago, Ill.

Bloomsdale—garden seeds— D. Landreth Seed Co., Bristol, Pa.

Brent's Premium—field and garden seeds— C. S. Erent Seed Co., Lexington, Ky.

Brown's Tested Seeds—They Grow—garden seeds—Alfred J. Brown Seed Co., Grand Rapids, Mich. uckeye—seeds-

Buckeye—seeds—The J. M. McCullough's Sons Co., Cincinnati, Ohio.
Buist's Prize Medal—garden seeds—Robt.
Buist Co., Philadelphia, Pa.
Burpeeana—seeds—W. Atlee Burpee Co.,

Philadelphia, Pa.

Burpee's Seeds Grow—W. Atlee Burpee
Co., Philadelphia, Pa.

Co., Philadelphia, Pa.

Cantaloupe—Imperial — cantaloupe seed —
J. C. Robinson Seed Co., Waterloo, Nebr.

Central Park—lawn seed—The J. M. McCullough's Sons Co., Cincinnati, Ohio.

Chr. Olsen—garden, root and grass seeds—
Chr. Olsen, Ltd., Odense, Denmark.

Colonial Boy—garden seeds—D. Landreth
Seed Co., Bristol, Pa.

Columbia Park—lawn grass seed—Duryea
Seed Co., Inc., New York. N. Y.

Compass Brand — field seeds — Davenport
Seed Co., Davenport, Iowa.

Crystal—field seeds—Minneapolis Seed Co.,
Minneapolis, Minn.

Minneapolis, Minn. Cucumber-Colorado-cucumber seed-

Robinson Seed Co., Waterloo, Nebr.

Daehnfeldt's—seeds—L. Daehnfeldt &
Theo. Jensen, Odense, Denmark.

Dependability—watermelon seeds—D. H.

Dependability—watermelon seeds—D. H. Gilbert, Monticello, Fla.

Disco—farm and garden seeds — Dakota Improved Seed Co., Mitchell, S. D.

Duryca's Central Park—lawn grass seed—Duryea Seed Co., Inc., New York, N. Y.

Eagle—alsike seed—Steele, Briggs Seed Co., Toronto, Ont., Can.

Emerald—farm and garden seeds—Dakota Improved Seed Co., Mitchell, S. D.

Ermine—timothy seed — Steele, Briggs Seed Co., Toronto, Ont., Can.

Seed Co., Toronto, Ont., Can.

Evergreen—lawn green seed—Duryea Seed
Co., Inc., New York, N. Y.

Falcon—field seeds—Minneapolis Seed Co.,

Minneapolis, Minn.

Farmer Brand—farm and garden seeds—
Farmer Seed & Nursery Co., Faribault, Minn.

erti-Lawn—fertilized lawn s lawn Co., Inc., Hamilton, N. Y loradale—seeds—W. Atlee I Ferti-Lawnseed—Ferti-

Atlee Burpee Co.,

oradale—seeds
Philadelphia, Pa.

Seeds—W. Atlee Burpee Fordhook-

Philadelphia, Pa.

Gladflower—flower seeds—W. Atlee Burpee Co., Philadelphia, Pa.

Goldinhart—seeds—W. Atlee Burpee Co.,

Philadelphia, Pa.

Gold Medal — field seeds — Louisville Seed

Co., Louisville, Ky.
Gold Standard—red top seed—J. M. Schultz

Gold Standard—red top seed—J. M. Schultz Seed Co., Dieterich, Ill.

Gramercy Park—lawn grass seed—Duryea Seed Co., Inc., New York, N. Y.

Greene Park—lawn grass seed—Page Seed Co.. Greene, N. Y.

Greenway—lawn seed—Wm. G. Scarlett & Co., Baltimore, Md.

Haco—red cabbage seed—Hjalmar Hartmann & Co., Copenhagen, Denmark.

Harvest—field seeds—Wm. G. Scarlett & Co.. Baltimore. Md.

Harvest—field seeds—Wm. G. Scarlett & Co., Baltimore, Md.

Hawk—alsike seed—Steele, Briggs Seed Co., Toronto, Ont., Can.

Hawk-Eye—field seeds—Hamilton Seed & Coal Company, Cedar Rapids, Iowa.

Heinr. Mette—vegetable and flower seeds—Heinr. Mette, Quedlinburg, Germany.

Helios—cauliflower seed—J. E. Ohlsens Enke, Copenhagen, Denmark.

Idatah—field seeds—Occidental Seed Co., Salt Lake City, Utah.

Interstate—seeds, grain, potatoes—Inter-

Interstate—seeds, grain, potatoes—Interstate Seed & Grain Co., Fargo, N. D.

Iroquois—farm seeds—Iroquois Seed Service, Chicago, Ill.
Isbell—seeds—Isbell Seed Co., Jackson, Mich.

It Pays to Sow 'Em—field seeds—Ross Seed Co., Louisville, Ky.

J. Chas. McCullough Seed Co.—seeds—J. Chas. McCullough Seed Co., Cincin-McCullough Seed Co.—seeds— McCullough Seed Co., Cincinnati, Ohio.

—field seeds—H. C. King & Sons, Inc., Battle Creek, Mich.

-T Hungary—field seeds and bird foods

Battle Creek, M. K. T. Hungary—field seeds and Diff. K. T. Hungary—field seeds and Diff. K. Kelway's—flower seeds—Kelway & (1933) Ltd., Langport, England.

\*\*Example Corneli Seed Co.,

Louis, Mo.

Knox's Quality—farm and garden seeds—
Paramount Seed Co., Stockton, Calif.

Lago—garden seeds—F. Lagomarsino & Sons, Sacramento, Calif.

Landreths'—garden seeds—D. Landreth Seed Co., Bristol, Pa.

Leonard's Seeds—Leonard Seed Co., Chicago, Ill.

Lilly's—seeds—Chas. H. Lilly Co., Seattle.

Lilly's— Wash. -seeds-Chas. H. Lilly Co., Seattle,

Lion Brand—red clover seed — Steele, Briggs Seed Co.. Toronto, Ont., Can. Loechner—vegetable, flower, grass and field seeds—Loechner & Co., Inc., New York,

Merchandise and Seedsmen's Supplies Index-Pages 4 and 6

Lone Star-bulbs-American Bulb Co., Chi-

cCullough's Seeds—The J. M. McCullough's Sons Co., Cincinnati, Ohio.—field seeds—Ed. F. Mangelsdorf & Bro., McCullough's

M—field seeds
St. Louis, Mo.

arvelawn—grass seed—Page Seed Co., Greene, N. Y. Marvelawn-

Master Farmer--farm and garden seeds-Farmer Seed & Nursery Co., Faribault, Minn.

Maybell Pure—field seeds—Ross Seed Co., Louisville, Ky. Meeters—onion sets—Meeters Inc., Lans-

Meeters—onion sets—Meeters Inc., Lansing, Ill.

Mile High—seeds—Grand Junction Seed Co.. Grand Junction, Colo.

Milford—grass seed—F. H. Woodruff & Sons, Milford, Conn.

Milford Green—lawn seed mixture—F. H. Woodruff & Sons, Milford, Conn.

"Nasiona"—seeds—"Nasiona," Danzig.

Never Die—lawn grass seed—D. Landreth Seed Co., Bristol, Pa.

Newday—farm seeds—Newday Seeds, Inc., Fargo, N. D.

Old English—lawn seed—Philadelphia Seed Co., Philadelphia, Pa.

Old English—flower seeds—Kelway & Son (1933) Ltd., Langport, England.

Old Homestead—lawn grass seed—Duryea Seed Co., Inc., New York, N. Y.

O & M—field, garden, lawn seeds and seed grains—O & M Seed Co., Green Springs, Ohio.

Oriole-

riole—field and bird seeds—Wm. G. Scarlett & Co., Baltimore, Md. sco—brand seeds—Ouren Seed Co., Coun-

cil Bluffs, Iowa. ar Seeds Grow Our Seeds

ur Seeds Grow Friends—seeds—Wash-burn-Wilson Seed Co., Moscow, Idaho. —seeds—A. S. Paterson & Co., Ltd., Dune-din, New Zealand.

Paramount—lawn seed—Garfield Williamson, Inc., New York, N. Y.

Paramount—field and garden seeds—Paramount Seed Co., Stockton, Calif.

Par Four—lawn seed—The J. M. McCullough's Sons Co., Cincinnati, Ohio.

Paseco—seed corn—Page Seed Co., Greene N. Y.

Pedigree Seeds—seeds—D. Landreth Seed Co., Bristol, Pa.

Pine Tree—farm seeds—Albert Dickinson Co., Chicago, Ill.

Platte—seeds—Nebraska Seed Co., Omaha.

Neb.c. Purseed—seeds—Blamberg Bros., Inc.,

Baltimore, Md.

P-WSCO—garden seeds—Pieters-Wheeler Seed Co., Gilroy, Calif.

Quaker—field seeds—Philadelphia Seed

Co., Philadelphia, Pa.

Radway's Central Park—lawn seed—Radway-McCullough Seeds, Inc., New York, N. Y.

Radway's Tested Seeds—Radway-McCullough Seeds, Inc., New York, N. Y. Reliable—timothy seed—J. M. Schultz Seed Co. Dieterich, Ill.

Royal Quality — field and grass seeds — Rudy-Patrick Seed Co., Kansas City, Mo. Santa Barbara—seed beans—McCrea Seed

Santa Barbara—seed beans—McCrea Seed Co., Santa Barbara, Cal.

Sealed Color-Tru—comato seed — Haven Seed Co., Santa Ana, Calif.

Security—field seeds — Minneapolis Seed Co., Minneapolis, Minn.

Seeds That Grow—W. Atlee Burpee Co., Philadelphia, Pa.

Seeds Which Succeed-seeds-D. Landreth

Seed Co., Bristol, Pa. ckle—seed—I. L. Ra New York, N. Y. L. Radwaner Seed Co., Sickle-

Sioux—field, garden and flower seeds—
Sioux—field, garden and flower seeds—
Sioux City Seed Co., Sioux City, Iowa.
Six Green Stripes—blue grass seed—Nebraska Seed Co., Omaha, Nebr.
Solar Brand—field seeds—Henry Hirsch &
Sons, Toledo, Ohio.
SoorBred—bantam sweet corp—Sioux City

Sons, Toledo, Ohio.

Soo-Bred—bantam sweet corn—Sioux City Seed Co., Sioux City, Ia.

S & S—field seeds—Shuler & Smoak, Orangeburg, S. C.

Stork—field seeds—Minneapolis Seed Co., Minneapolis, Minn.

Suburban—lawn seed—The J. M. McCullough's Sons Co., Cincinnati, Ohio.

Suhr's Seed Sure Success—garden seeds—E. Suhr Co., New York, N. Y.

Sunnybrook—seeds—W. Atlee Burpee Co., Philadelphia. Pa.

Philadelphia, Pa.

Sunshine—farm and garden seeds—Dakota
Improved Seed Co., Mitchell, S. D.

Super—Regame—cauliflower seed—A.

Hansen, Kastrup, Denmark.

Tiger—red clover seed—Steele, Briggs
Seed Co., Toronto, Ont., Can.

Turfmaker—lawn seed mixture—F. H.
Woodruff & Sons, Milford, Conn.

Universal Grass and Carfold William

Universal—grass seed—Garfield Williamson, Inc., New York, N. Y.
Utryit—seeds—The Nebraska Seed Co..

Omaha, Nebr.

Value Brand—field seeds—Henry Hirsch & Sons, Toledo, Ohio.

Ver-E-Best—seeds—Market Gardeners' Seed Co., Cincinnati, Ohio.

Village Green—lawn grass mixtures—Duryea Seed Co., Inc., New York, N. Y.

Wab—seeds—W. Atlee Burpee Co., Philadelphia Po. delphia, Pa. (aller's — flower seeds

Waller's -Waller-Franklin

Waller's — flower seeds — Waller-Franklin Seed Co., Guadalupe, Cal. Washington Park—lawn seed—The J. M. McCullough's Sons Co., Cincinnati, Ohio. Wolf—red clover seed—Steele, Briggs Seed Co., Toronto, Ont., Can. Woodco—lawn seed mixture and grass seed—F. H. Woodruff & Sons, Milford,

Conn.

Woodland Path Shady—lawn seed—J. M.

McCullough's Sons Co., Cincinnati, O.

XXXX—seeds—The J. M. McCullough's

Sons Co.. Cincinnati. Ohio.

Ye Olde Copenhagen Market—a Copenhagen market cabbage seed—Hjalmar

Hartmann & Co., Copenhagen, Denmark.

Yorkshire Park—lawn grass seed—Duryea Seed Co., Inc., New York, N. Y.

#### **ALLIED LINES**

AAZ Special-zinc oxide seed treatment

Rohm & Haas Co., Philadelphia, Pa. cme—arsenate of lead, arsenate of zinc, bordeaux mixture, calcium arsenate, lime Acmesulphur, paris green, spray soap, insecticides, poultry lice killers—Acme White Lead and Color Works, Detroit, Mich. cme—mole traps—C. E. Grelle, Portland,

Ore.

Agate—seed scale—Henry Troemner, Philadelphia, Pa.

Agri-Pax—insecticide—Morris B. Reade, Inc., Belleville, N. J.

All Round Spray—insecticide—Acme White

All Round Spray—insecticide—Acme White Lead & Color Works, Detroit, Mich.
Androck—plant supports—Michigan Wire Goods Co., Niles. Mich.
Annia Germ—funigant insecticide—Douglas Chem. & Sup. Co., Kansas City, Mo.

- ant exterminator — Hammond Paint & Chemical Co., Beacon, N. Y.

Ant Kill—pest exterminator—Acme W Lead & Color Works, Detroit, Mich.

- insecticide — Acme Aphis Spray -

Lead & Color Works, Detroit, Mich.

Aristocrat—seed bags—Miller. Tomp
& Co., East Rutherford, N. J. Tompkins

Awinc — pyrethrum spray — A son. Inc., Springfield, N. J. Andrew Wil-

Bait-M — insecticide bait — Acme White Lead & Color Works, Detroit, Mich.

Banner — poultry feed — Ouren Seed Co.. Council Bluffs. Iowa.

-root cutters—O. E. Thompson & Banner Sons, Ypsilanti, Mich.

artlett—pruning tools—Bartlett Mfg. Co., Detroit, Mich.

Bcetle Dust — insecticide — Acme ite Lead & Color Works, Detroit, **- A. c** m e White Lead & Color Mich.

Bemis-A—cotton seamless bags—Bemis Bro. Bag Co., St. Louis, Mo.

Bemis Special—threads—Bemis Bro. Bag Co., St. Louis, Mo.

Bird Neponset—flower pots, covers and earth bands—Bird & Son, Inc., East Walnole Mass

Walpole, Mass.

Black Arrow — insecticide — McCormick & Co., Baltimore, Md.

Black Leaf 40 — insecticide, poultry lice killer, worm remedy and dog repellent— Tobacco By-Products & Chemical Corp., Louisville, Ky.

Louisville, Ky.

Bor-tox—boring insect control—Andrew Wilson, Inc., Springfield, N. J.

Brown—bag filling machine—Brown Bag Filling Machine Co., Fitchburg, Mass.

Brownie—seed bags—Miller, Tompkins & Co., East Rutherford, N. J.

Buhler — patented vibrationless sieve drives—S. Howes Co., Silver Creek, N. Y.

Bull Dog—seed bags—Miller, Tompkins & Co., East Rutherford, N. J.

Bull's Eye Catalog Book—paper stock—Consolidated Water Power & Paper Co., Wisconsin Rapids, Wis.

Consolidated Water Power & Paper Co., Wisconsin Rapids, Wis.

C-A—chicken mite killer—C-A Wood Preserver Co., St. Louis, Mo.

Camel—tags and boxes—Campbell Box & Tag Co., South Bend, Ind.

Cascade—vertical seed mixers—S. Howes Co., Silver Creek, N. Y.

Cattle Comfort—stock spray—Hammond Paint & Chemical Co., Beacon, N. Y.

Celophane—seed enclosure—I. L. Radwaner Seed Co., New York, N. Y.

Ceresan—New Improved—wheat, oats and barley seed treatment—Bayer-Semesan Co., Wilmington, Del.

Champion—peanut pickers—Ellis Keystone Agri. Works, Pottstown, Pa.

Champion—scoops—Michigan Wire Goods Co., Niles, Mich.

Co., Niles, Mich.

Champion—weighing and filling machines
—S. Howes Co., Silver Creek, N. Y.

Clark's—parapin wax, melters, dip tanks
—Walter E. Clark & Son, Milford, Conn.

Clute—air-lift elevators and fruit graders
—Oliver Mfg. Co., St. Louis, Mo.

Collie—seed bags—Miller, Tompkins & Co.,
East Rutherford, N. J.

East Rutherford, N. J. Compound Lever—tree to Mfg. Co., Detroit, Mich. trimmer—Bartlett

Coposil — spray dust product — Grasselli Chem. Co., Cleveland, O. Cornell—feeds—Blamberg Bros., Inc., Bal-

timore, Md.

Cuprocide—red copper oxide seed treatment—Rohm & Haas Co., Philadelphia,

Dawg-Gone—dog repellent—Acme White Lead & Color Works, Detroit, Mich. Deridust—insecticide—S. B. Penick & Co., New York, N. Y.

Derispray-insecticide-S. B. Penick & Co.,

New York, N. Y.

Disbrow Seal Brand—seed packets and bags—Disbrow Mfg. Co., Newark, N. J.

Dixie—chick feeder—Hoeft & Co., North

Do-All Green Dust—insecticide, fungicide —Hammond Paint & Chem. Co., Beacon,

og Skat — tree and shrub protector — Hammond Paint & Chem. Co., Beacon. Dog

Dogzoff — dog repellent — Bohlender Plant Chemicals, Inc., Tippecanoe City, Ohio. Driconure—fertilizer—Atkins & Durbrow, Inc., New York, N. Y. Du Bay 738—soil disinfectant for bottom rot of lettuce—Bayer-Semesan Co., Wilmington, Del.

utox — non-arsenical insecticide — (selli Chemical Co., Cleveland, Ohio.

Eclipse—lawn mowers—Eclipse Lawn Mower Co. Prophetstown, Ill.

Ellis Champion—grain threshers—l Agricultural Works, Pottstown, Pa. –Ellis Eureka—seed cleaners, separators graders, lawn seed mixers, scarifiers and machinery-

other seed processing machin Howes Co., Silver Creek, N. Y. Everlastic—glazing bedding putty-mond Paint & Chemical Co., 1 Beacon,

N. Y.

Exact Weight—scales—Exact Weight
Scale Co., Columbus, Ohio.

Floragard—insecticide—Grasselli Chemical

Co., Cleveland, Ohio.

Fly-Away—spray — Hammond Paint & Chemical Co., Beacon, N. Y.

Foliafume—insecticide—S. B. Penick & Co., New York, N. Y.

For-Get-Me-Not—natural and colored raffia
—Julius Loewith, Inc., New York, N. Y.

Form-O-Fume—formaldehyde dust—Rohm & Haas Co. Philadelphia Pa

& Haas Co., Philadelphia, Pa.

Four-In-One — percentage scale — S

Trade Reporting Bureau, Chicago, Ill.

Fumigato—fumigant — Douglas Chemical & Supply Co., Kansas City, Mo.
Fung-O—liquid fungicide — Andrew Wilson, Inc., Springfield, N. J.
Fun-L-Fill — sprayers — Dobbins Mfg. Co., North St. Paul, Minn.
Garden Guard—insecticide and fungicide—

Acme White Lead & Color Works, Detroit, Mich.

Garden Volck—spray and dust product—Grasselli Chemical Co., Cleveland, Ohio.

Gardex—garden tools—Gardex, Inc., Michigan City, Ind.

Gem—chick waterer—Hoeft & Co., North Chicago, Ill.

Chicago, Ill.

Germaco—hotkaps—Germain Seed & Plant
Co., Los Angeles, Calif.

Globe—feeds—Albert Dickinson Co., Chi-

cago, Ill. & O—sprayers, insecticides, disinfectants, egg preservatives, chicken mite killers, crow repellents, fertilizers, fly repellents, fumigants, fungicides, pest exterminators, plant foods, rabbit supplies, stock remedies, mole and animal traps, weed destroyers—Goulard & Olena, Inc. New York. N. Y.

Inc., New York, N. Y.

Gold Leaf—tobacco powder—Tobacco ByProducts & Chemical Corp., Louisville, Ky.

PM—peat moss— New York, N. Y. -Atkins & Durbrow, Inc., GPM-

Grape and Rose Dust—fungicide — Hammond Paint & Chemical Co., Beacon, N. Y. Grasselli - Bordeaux Mixture

Chem. Co., Cleveland, Ohio.
rasselli — arsenate of lead -Grasselli -- Grasselli

Chem. Co., Cleveland, Ohio.

Grasselli—spray products—Grasselli Chemical Co., Cleveland, Ohio. Grip-Lock—bag seal—E. J. Brooks Co., Newark, N. J.

Growmore — chick feed — The Ackerman Company, Lima, Ohio.

Grub-O—lawn grub proofing compound—
Andrew Wilson, Inc., Springfield, N. J.

Hammond's—insecticides, fungicides, paints and putties—Hammond Paint & Chemical Co., Beacon, N. Y.

Hammond's Copper Solution—fungicide—
Hammond Paint & Chemical Co., Beacon, N. Y.

con, N. Y.

-envelopes—Heco Envelope Co.,

Chicago, Ill.

Henry Troemner—weighing apparatus—
Henry Troemner, Philadelphia, Pa.

Herbst—bag cleaners—S. Howes Co., Silver Creek, N. Y.

Hi-Lo-Fosfate—for available phosphates—
Iller of the control of the control

Urbana Laboratories, Urbana, Ill. Hitox—insecticide—Hitox Products Corp.,

New York, N. Y.

Hoffer Test—for nitrogen and potash—
Urbana Laboratories, Urbana, Ill.

Hofmann—plant food distributor—Salem
Tool Co., Salem, Ohio.

Hofmann, Jr.—plant food distributor—

Hofmann, Jr. — plant food di Salem Tool Co., Salem, Ohio.

Hofmann, Sr. — plant food di Salem Tool Co., Salem, Ohio. Sr. - plant food distributor - Horicum Lime—sulphur concentrate and fungicide—Hammond Paint & Chemical Co., Beacon, N. Y.

Hotkaps—plant protectors—Germain Seed & Plant Co., Los Angeles, Cal.

Howes—equipment for seed houses—S.
Howes Co., Silver Creek, N. Y.

Hudson—sprayers—H. D. Hudson Mfg. Co., Chicago, Ill.

Hudson Kleen-EZY—poultry equipment—H. D. Hudson Mfg. Co., Chicago, Ill.

Humogerm—inoculant—Kalo Inoculant Co., Quincy, Ill.

Co., Quincy, Ill.

H. W. K.—weed killer—Hammond Paint & Chemical Co., Beacon, N. Y.

Hydro-Air—power sprayer—Andrew Wilson, Inc., Springfield, N. J.

Hydroxcide—insecticide—Mechling Bros.

Hydroxcide — insecticide — Mechling Bros.
Chem. Co., Camden, N. J.
Hyper-Humus—plant food and fertilizer—
Hyper-Humus Co., Philadelphia, Pa.
Interstate—feeds—Interstate Seed & Grain
Co., Fargo, N. D.
Invincible—hean polishers and bean clear

Invincible—bean polishers and bean cleaning and grading equipment—S. Howes Co., Silver Creek, N. Y.

Iron Age—garden tools—Ellis Keystone Agricultural Works, Pottstown, Pa.

Japtox—Japanese bean beetle destroyer—Mechling Bros. Chem. Co., Camden, N. J.

Jay Bee—feed grinders, feed mixers, hammer mills roughers grinders out grushmer mills, roughage grinders, oat crushers, grain mills, alfalfa mills, portable mills, corn crackers, batch mixers, mills, corn crackers, batch mixers, molasses mixers, poultry feed machinery—J. B. Sedberry, Inc., Utica, N. Y. Kalite-Dust—insecticide—The Kalo Com-

pany, Quincy, Ill.

alo—dry insecticide—The Kalo Company,
Quincy, Ill. Kalo-

Kalo—poultry and livestock remedies— The Kalo Company, Quincy, Ill. Kalobait—pest exterminator (for worms and grasshoppers)—Kalo Co., Quincy, worms Quincy, III.

Kalo Dairy Ration—for cows—The Kalo Company, Quincy, Ill.

Kalo Spray-insecticide-The Kalo Company, Quincy, Ill.

Kalo Stock Dip-The Kalo Company, Quincy, Ill.

aloil—pyrethrum non-poisonous spray, insecticide—The Kalo Company, Quincy, Kaloil-111.

Kalo Wormoil—hog remedy—The Kalo Company, Quincy, Ill.

Kalo Wormout Tablets—sheep and goat remedy—The Kalo Company, Quincy, Ill. Kerosene Emulsion—insecticide—Hammond Paint & Chemical Co., Beacon,

Beacon,

Keystone—circular wood saws and fodder cutters—Ellis Keystone Agricultural Works, Pottstown, Pa.

Keystone—fish oil spray soaps—James Good, Inc., Philadelphia, Pa.

Killal—insecticide—Kalo Company,

Quincy, Ill.

Kleenup Oil—for control of scale, red mite and leaf roller—Grasselli Chemical Co., Cleveland, Ohio.

Kleenup-Tar Oil Emulsion—spray and dust product—Grasselli Chem. Co., Cleveland, Ohio.

Klen-O-Cil len-O-Cil — spray and dust product -Grasselli Chem. Co., Cleveland, Ohio.

Lac-Hi-Potash—for replaceable potassium
—Urbana Laboratories, Urbana, Ill.
Lawnette—seeder and fertilizer spreader—

O. E. Thompson & Sons, Ypsilanti, Mich.

ymore—poultry feed—The Ackerman Laymore—poultry

Ackerman Co., Lima, Ohio. Lethane 420 — insecticide — Rohm & Haas

Co., Philadelphia, Pa. Lethane Junior—insecticide—Rohm & Haas

Co., Philadelphia, Pa. Lilly's—fertilizers and dairy feeds—Chas. H. Lilly Co., Seattle, Wash.

Liquid Slug Shot—insecticide — Hammond Paint & Chem. Co., Beacon, N. Y. Little Giant—mole traps—Michigan Wire Goods Co., Niles, Mich.

Little Wonder—hedge trimmer—Detco Mfg. Co., Oaks (Montgomery Co.) Penna. London Purple—insecticide—Acme White Lead & Color Works, Detroit, Mich. Loro—insecticide—Grasselli Chemical Co.,

Cleveland, Ohio.

ric—mixed bird seed—Philadelphia Seed

Lyric—mixed bird seed—Philadelphia Seed Co., Philadelphia, Pa.

Mainstay—cotton twine for closing bags by hand sewing—Bemis Bro. Bag Co.,

by hand sewing—Bemis Bro. Bag Co., St. Louis, Mo.

Manganar Rose Dust—fungicide—Grasselli Chemical Co., Cleveland, Ohio.

Mechling's Scale Oil—insecticide—Mechling Bros. Chem. Co., Camden, N. J.

Miller's—dog food—Battle Creek Dog Food Co., Battle Creek, Mich.

Mix—bean sorters—S. Howes Co., Silver Creek, N. Y.

Modern Form—order blanks—Consolidated Water Power & Paper Co., Wisconsin Rapids, Wis.

Moe's Line—poultry supplies and garden

Moe's Line—poultry supplies and garden tools, fertilizer spreader and seeder—Hoeft & Co., Inc., North Chicago, Ill.

Morecorn—seed corn sorters and graders—Universal Hoist & Mfg. Co., Cedar

Falls, Iowa.

M-S-R Dusting Sulphur—rose dust—
White Lead & Color Works, I Detroit,

Mich.

Mt. Beacon—green shading—Hammond Paint & Chemical Co., Beacon, N. Y.

Naptoside—fumigant, insecticide—Hammond Paint & Chem. Co., Beacon, N. Y.

Need Envelopes? Phone Heco!—Heco Envelope Co., Chicago, Ill.

Neponset—flower pots, flower pot covers and earth bands—Bird & Son, Inc., East Walpole, Mass.

Neva-Fale—plant spray—Morris B. Reade, Inc., Belleville, N. J.

New Day—feeds—Newday Seeds, Inc., Fargo, N. D.

Nico-Fume—liquid. paper and

Nico-Fume—liquid, paper and powder insecticide—To bacco By-Products & Chemical Corp., Louisville, Ky.

Nicotine Soap — insecticide — Hammond

Paint & Chemical Co., Beacon, N. Y.
Nicotine Poultry Delouser—lice killer—
Acme White Lead & Color Works,

Detroit, Mich.

Nitragin—soil and legume inoculator—
The Nitragin Co., Inc., Milwaukee, Wis.

No Crow—crow repellent—Hammond Paint
& Chem. Co., Beacon, N. Y.

Nod-O-Con—inoculant—Albert Dickinson

Nod-O-Gen—inoculant—Albert Dickinson Co., Chicago, Ill. Nu Green—fungicide for brown patch of grasses control—Bayer-Semesan Co., Wilmington, Del.

Nu Rexform—codling moth & other insect control—Grasselli Chem. Co., Cleve-

sect control—Grasselli Chem. Co., Cleveland, Ohio.

Nursery Volck—spray and dust product—
Grasselli Chem. Co., Cleveland, Ohio.

O. K.—plant spray—Andrew Wilson, Inc.,
Springfield, N. J.

OKPL—poultry litter—Atkins & Durbrow,
Inc., New York, N. Y.

Old English Lawn Klenser—Japanese
beetle exterminator—Philadelphia Seed

Old English Lawn Klenser—Japanese beetle exterminator—Philadelphia Seed Co., Philadelphia, Pa.
Old English—liquid putty—Hammond Paint & Chemical Co., Beacon, N. Y.
Old English—sheep manure—Philadelphia Seed Co., Philadelphia, Pa.
Old English—turf builder and plant food —Philadelphia Seed Co., Philadelphia, Pa

gravity separators and portable ic blowers—Oliver Mfg. Co., St. Oliver electric

Louis, Mo.

Original—greenhouse white paint—Hammond Paint & Chem. Co., Beacon, N. Y. P. A. C. 6% Formaldehyde Dust—soil sterilizer—Grasselli Chemical Co., Cleveland, Ohio.

Pacific — goldfish and supplies — Pacific Goldfish Farm, Westminster, Calif.

Paragon — sprayers — Campbell-Hausfeld Co., Harrison, Ohio.

Patch—budder—Walter E. Clark & Son, Milford, Conn

Milford, Conn.

Peerless—gunning asbestos asphaltum— Hammond Paint & Chemical Co., Bea-

con, N. Y.

Perfection — plant markers and stakes —
S-W Supply Co., Girard, Kansas.

Pest-Kit—kit containing material to combat insects and diseases—Hammond Paint & Chemical Co., Beacon, N. Y.

Pictorial — cover stock — Consolidated Water Power & Paper Co., Wisconsin Rapids, Wis.

Pinaveras—disinfectant—Morris B. Reade, Inc. Belleville N. J.

Pinaveras—disinfectant—Morris B. Reade, Inc., Belleville, N. J.

Plantspur—fertilizer—Garfield Williamson, Inc., New York, N. Y.

Porter—bag seals—Porter Safety Seal Co., Chicago, Ill.

Production Experies

Chicago, Ill.

Production English Finish Book — paper stock — Consolidated Water Power & Paper Co., Wisconsin Rapids, Wis.

Production Super Book — paper stock — Consolidated Water Power & Paper Co., Wisconsin Rapids, Wis.

Production Super—cover stock—Consolidated Water Power & Paper Co., Wisconsin Rapids, Wis.

Protecto-Seal — bag seals — Protecto-Seal Co., Buffalo, N. Y.

Purgrain—pigeon, poultry and rabbit

Purgrain—pigeon, poultry and rabbit feeds and pigeon health grit—Philadelphia Seed Co., Philadelphia, Pa.

Pyrote—non poisonous double acting insecticide—Mechling Bros. Chemical Co., Camden, N. J.

Pysol—McCormick & Co., Baltimore, Md.

Quick-Seal—envelope sealing machine—

Quick-Seal — envelope sealing machine —
Schuyler Arnold, Coldwater, N. Y.

Racine—fanning mill type seed cleaners
—S. Howes Co., Silver Creek, N. Y.

Reade's—horticultural chemicals and fertilizer—Morris B. Reade, Inc., Belleville, N. J. Red A-

N. J.

Red A—pyrethrum powder and liquid soap
—McCormick & Co., Baltimore, Md.

Red Arrow—insecticide—McCormick & Co.,
Baltimore, Md.

Reddick—mole trap—Michigan Wire Goods
Co., Niles, Mich.

Red Star Brand—raffia—McHutchison &
Co., New York, N. Y.

Reliable—poultry supplies—Reliable Incubator & Brooder Co., Quincy, Ill.

Rhodono—plant food—Garfield Williamson, New York, N. Y.

Rhody-Life—Andrew Wilson, Inc., Springfield, N. J.

Rich-or-Poor—for soil acidity — Urbana Laboratories, Urbana. Ill.

Rid-O-Rat—non poisonous liquid rat terminator — Andrew Wilson exterminator — Andrew Springfield, N. J. Wilson,

Root Quality--bee supplies—A. I. Root Co., Medina, Ohio.

Medina, Ohio.

Rose Dust—fungicide—Hammond Paint & Chemical Co., Beacon, N. Y.

Rotofume—liquid Rotenone insecticide—
Andrew Wilson, Inc., Springfield, N. J.

Sicco—fertilizer, plant food, fertilizer spreader and seeder—Smith Agri. Chemical Co., Columbus, Ohio.

Salem-18", 24" and 36"—fertilizer spreader and compost maker—Salem Tool Co., Salem. Ohio.

Salem, Ohio.

sale-O—dormant spray—Andrew Wilson,
Inc., Springfield, N. J. Scale-0-

Seal Brand—seed packets and bags—Disbrow Mfg. Co., Newark, N. J.

Seals That Seal—seals—Porter Safety
Seal Co., Chicago, Ill.

Seedburo Quality—grain, seed and flour grading equipment—Seed Trade Reporting Bureau, Chicago, Ill.
Self-Serve—seed packet display racks—

Davis Metal Fixture Co., Lansing, Mich. Semesan—seed treatment for seeds, bulbs and brown patch of grasses, also for damping off of seedlings—Bayer-Semesan Co., Wilmington, Del.

san Co., Wilmington, Del.

Semesan Bell-New Improved—instantaneous dip for seed white and sweet potatoes—Bayer-Semesan Co., Wilmington,

Semesan, Jr. — New Improved — field and sweet corn seed treatment — Bayer-Semesan Co., Wilmington, Del.

Sheep's Head Brand—sheep and cattle manure, fertilizer—Natural Quano Co., Aurora, Ill.

Sho-Gro—seed germinators — Seed Trade
Reporting Bureau, Chicago, Ill.
Sholder—scoop—Michigan Wire Goods Co.,
Niles, Mich.
Slug Shot—insecticide and fungicide—
Hammond Paint & Chemical Co., Bea-

con. N. Y.

con. N. Y.
Soil-O-Gas—soil fumigant—Andrew Wilson, Inc., Springfield, N. J.
Sorbex — peat moss — Atkins & Durbrow, Inc., New York, N. Y.
Specific—gravity separators, cleaners and graders—Sutton, Steele & Steele, Dallas, Texas.

Star—poultry fountain—Hoeft & Co. North

-poultry fountain—Hoeft & Co., North Chicago, Ill.

Star—pocket gopher trap—Michigan Wire Goods Co., Niles, Mich. Sterling—feeds—Northrup, King & Co., Minneapolis, Minn.

Minneapolis, Minn.

Stimugerm—jelly and humus seed inoculator—Stimuplant Laboratories, Inc., Long Island City, N. Y.

Stimuplant—plant food—Stimuplant Laboratories, Inc., Long Island City, N. Y.

Storm King—greenhouse white paint and white glazing compound—Hammond Paint & Chemical Co., Beacon, N. Y.

Sulforon—fungicide—Grasselli Chemical Co., Cleveland, Ohio.

Superbilt—sprayers and dusters—Dobbins

Superbilt—sprayers and dusters—Dobbins Mfg. Co., North St. Paul, Minn.
Sure Shot—concentrated pyrethrum soap spray—Hammond Paint & Chemical Co., Beacon, N. Y.

-rat exterminator— Tetrafume-Chemical & Supply Co., Kansas City, Mo.

Thompson—fertilizer spreaders and seeders
—O. E. Thompson & Sons, Ypsilanti, Mich.
Thrip Juice—insecticide—Hammond Paint
& Chemical Co., Beacon, N. Y.
Tri-Tox-Cide—thrips dust insecticide—
Andrew Wilson, Inc., Springfield, N. J.

Trowbridge—grafting wax—Walter E. Clark & Son, Milford, Conn.

True to Type—seed pockets—Stecher-Traung Lithograph Corp., Rochester, N.

2% Ceresan—disinfectant for cotton, narcissus and peas—Bayer-Semesan Co., Wilmington, Del.
2 Way Spray—insecticide and fungicide—Acme White Lead & Color Works, Detroit, Mich.
Union—garden tools—Union Fork & Hoe

Union—garden tools—Union Fork & Hoe Co., Columbus, Ohio.

Urbana Culture—legume inoculator — Urbana Laboratories, Urbana, Ill.

Visinet—bags for fruit and vegetables—
Bemis Bro. Bag Co., St. Louis, Mo.
Wedo—fertilizer and plant food—Smith
Agri. Chem. Co., Columbus, Ohio.

Agri. Chem. Co., Columbus, Ohio.

Weedex—weed killer—James Good, Inc.,
Philadelphia, Pa.

Wilson's—dusting sulphur, lawn fertilizer,
liquid insecticide soap, summer fruit
fungicide, weed killer, tree wound paint,
worm eradicator dust, high pressure
spray hose, tree food, superbilt fertilizer
distributor, estate power sprayer, dust
gun.—Andrew Wilson, Inc., Springfield,
N. J.

N. J.

Windobag — seed enclosure—I. L. Radwaner Seed Co., New York, N. Y. Wizard—sheep and cattle manure—Pulverized Manure Co., Chicago, Ill. Woodco—lawn food—F. H. Woodruff & Sons. Milford. Conn.

XX Superior Brand—raffia—McHutchison & Co., New York, N. Y.

Yankce Mum-manure—Garfield Williamson, Inc., New York, N. Y.

X. L. — lawn sprinklers —X. L. Mfg. Co., Chicago, Ill.



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Unbreakable!

#### Reduce Expenses!

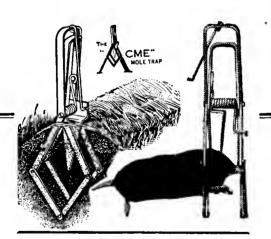
Grow your plants in the same pots in which they will be delivered to your customer. Eliminate transplanting expense. Tests prove that Neponset Growing Pots encourage maximum growth. Plants grown in them require less frequent watering.

Made of treated waterproof paper.

The Neponset Plant Box for growing and shipping one dozen plants is Bird's latest contribution to horticulture.

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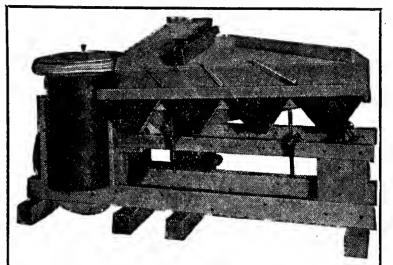
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#### DIRECTORY SECTION

On the following pages are given the names and addresses of seed growers and wholesalers of both field and garden seeds. For manufacturers of store and warehouse supplies and merchandise for resale purposes, etc., see pages 122 and 162.

By this method of classification it is easy to locate the growers or wholesalers in any particular state or section of the country and the manufacturer or distributor of anything used by the seed dealer in the conduct of his own business or sold to his patrons.

patrons.

Every effort has been made, in compiling this directory, to make it as complete as possible. The names and the lines handled were supplied by the firms listed in response to a general invitation to the trade.

The publication of this book has been made possible by the support and co-operation of the firms listed in bold face type and whose advertising appears on the pages as indicated by the numbers following their names.

In cases where firms specialize in the handling of a certain item this fact is indicated by the commodity appearing in parenthesis after the company's name.

#### WHOLESALE FIELD SEEDS

**ALABAMA** Birmingham Seed Co. Birmingham Seed Co.
Birmingham, Ala.
Poyner Seed Co.
Dothan, Ala.
Wind & Co., I.
Huntsville, Ala.
Van Antwerp Seed Co.
Mobile, Ala. CANADA ARIZONA Buckeye Seed & Feed Co. Buckeye, Ariz.

Johnson-Pearce Co.

Mesa, Ariz. Arizona Feed & Seed Association

Phoenix, Ariz. Capital Fuel & Feed Co. Pheenix, Ariz. Liefgreen Seed Co. Phoenix, Ariz. Quick Seed & Feed Co. Phoenix, Ariz. Alfalfa Seed & Lumber Co. Yuma. Ariz. Blalack Feed & Seed Co.

Yuma, Ariz.
Sanguinetti, E. F.
Yuma. Ariz.
Whitman Seed Co. Yuma, Ariz

Yuma County Farm Bureau Marketing
Association Yuma, Ariz.

#### ARKANSAS

Lee, Arthur G.
Fort Smith, Ark.
Bass-Isgrig Seed Co.
Little Rock, Ark.
Cochran Co., H. K.
Little Rock, Ark.
Texarkana Seed House Texarkana, Ark. Word Seed Store Texarkana, Ark.

CALIFORNIA Bomberger Seed Co. Berkeley, Calif.
Cuff-Archias Seed Co. (Sesbania and Melilotus Indica) Brawley, Calif. Loomis, Jay Hemet, Calif.
Aggeler & Musser Seed Co.
Los Angeles, Calif.
Germain Seed & Plant Co.

Los Angeles, Calif.

(See Adv. on Page 161)

Smith & Co., F. F.

Sacramento, Calif.

Sacramento, Cani.

Ferry-Morse Seed Co.
San Francisco, Calif.

(See Adv. on Page 76)

Sevin-Vincent Seed Co.
San Francisco, Calif.

Volkmann & Co., C. M. San Francisco, Calif.

Paramount Seed Co. Stockton, Calif.
(See Adv. on Page 23)

CANADA

McKenzie Co., Ltd., A. E.
Brandon, Man.. Canada.

Bruce & Co., Ltd., John A.
Hamilton, Ont., Canada.

Hogg & Lytle, Ltd.
Oakwood, Ont., Canada.

McDonald & Sons, Ltd., Kenneth
Ottawa, Ont., Canada.

Ewing, The Wm. Co., Ltd.
Montreal, Que, Canada.

Canada Seed Co., Ltd., The
Toronto, Ont., Canada.

Goodall, Ltd., James
Toronto, Canada.

Keith & Sons, Geo.
Toronto, Canada.

Rennie Seeds, Wm., Ltd.
Toronto, Canada.

Steele, Briggs Seed Co., Ltd.

Steele, Briggs Seed Co., Ltd.

Toronto, Canada (See Adv. on Page 35)

#### COLORADO

Barteldes Seed Co. Denver, Colo.
Rocky Mountain Seed Co.
Denver, Colo.
Western Seed Co. Denver, Colo.
Farmers Supply Co.
Durango, Colo.

Grand Junction Seed Co. Grand Junction, Colo. (See Adv. on Page 71)

Strain Bros. Lamar, Colo. James, R. H. Rocky Ford, Colo.

CONNECTICUT

Cadwell & Jones Hartford, Conn. Woodruff & Sons, F. H.

Woodrum & Sons, F. H.

Milford, Conn.

(See Adv. on Front Cover)

Platt Co., Inc., The Frank S.

New Haven, Conn.

Comstock, Ferre & Co.

Wethersfield, Conn.

(See Adv. on Page 91)

(See Adv. on Page 91)

FLORIDA Shreve Seed Co.
Chipley, Fla.
Security Feed & Seed Co.
Tampa, Fla.

**GEORGIA** Athens Seed Co.

Athens, Ga.

(See Adv. on Page 57)
Rowland Co., The
Athens, Ga.
Walton Seed Co. (Cowpeas and Soybeans) Augusta, Ga.

Merchandise and Seedsmen's Supplies Index-Pages 4 and 6



#### ALFALFA

GRIMM, COSSACK, DAKOTA 12

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WRIGHT, STEPHENSON & CO., LTD. —Wellington, New Zealand.

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We Specialize in

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Settle & Robison (Cowpeas) Jackson, Ga.
Beechwood Seed Farms
Rome, Ga.
Snelson Seed Co.
Savannah, Ga.
Barnett-Paschal Co.
Washington, Ga.

#### **IDAHO**

Idaho Grimm Alfalfa Seed Growers Assn.
Blackfoot, Idaho
(See Adv. on Page 13)
Central Coal & Seed Co.

Central Coal & Seed Co.

Boise, Idaho
Union Seed & Fuel Co.

Boise, Idaho
Buhl Seed & Grain Co.

Buhl, Idaho
Pioneer Seed & Grain Co.

Burley, Idaho
Lilly Seed Co.

Caldwell, Idaho
Duthie Co.

Duthie Co.
Lewiston, Idaho
Means Co., Mark
Lewiston, Idaho
Moscow-Idaho Seed Co.
Moscow, Idaho
Intermountain Seed Co.
Twin Falls, Idaho

#### **ILLINOIS**

Funk Bros. Seed Co.
Bloomington, Ill.
Vollbracht Co., Wm.
Camp Point, Ill.
Allied Seed Co.
Chicago, Ill.
American Field Seed Co.
Chicago Ill.

Chicago, Ill.

Dickinson Co., Albert
Chicago, Ill.

(See Adv. on Page 132)

Farmers National Grain Corporation

Chicago, Ill.
Iroquois Seed Service
Chicago, Ili.

(See Adv. on Page 115)
Johnson, Inc., J. Oliver
Chicago, Ill.
Sun-Field Seed Service
Chicago, Ill.
Schultz, J. M.
Dieterich, Ill.

Dieterich, Ill.

(See Adv. on Page 59)

Keith & Son, L. J.—(Redtop)

Fairfield, Ill.

Ging & Co.
Farina, Ill.
Egyptian Seed Growers Exchange— (Redtop)

Flora, Ill. Beebe, C. A. Forreston, Ill.

Forreston, Ill.

Noble Bros.
Gibson City, Ill.

Morris Grain & Seed Co.
Morris, Ill.

Allied Seed Co.
Peoria, Ill.

Kelly Seed Co.
Peoria, Ill.

Eber Seed Co.
Quincy, Ill.

Keller & Sons, Geo.
Quincy, Ill.

Quincy Seed Co.
Quincy, Ill.

Condon Bros. Seedsmen
Rockford, Ill.

Pratt Seed Farms (Lesped

Pratt Seed Farms (Lespedeza)
Roseville, Ill.
Bastien, R. F. (Cowpeas)
Vergennes, Ill.

#### INDIANA

Foster-Kendall Co. Carmel, Ind. Crabbs, Reynolds, Taylor Co. Crawfordsville, Ind.

Crawfordsville Seed Co.
Crawfordsville, Ind.
Heldt Co., The
Evansville, Ind.
McCarty Co., The J. A.
Evansville, Ind.
Ohio Valley Seed Co.
Evansville, Ind.
Purcell Seed Co.
Evansville, Ind.
Allied Seed Co.
Fort Wayne, Ind.
Hooton-Davis Seed Co.
Lebanon, Ind.
Scott Seed Co. Crawfordsville Seed Co. Scott Seed Co.

New Albany, Ind.

Meyer Grain Co.

South Whitley, Ind. Quinlan Seed Store Terre Haute, Ind. Goodrich Bros. Co. Winchester, Ind.

Hamilton Seed & Coal Co.
Cedar Rapids, Iowa
(See Adv. on Page 65)
Council Bluffs Seed Co. (Seed Corn)
Council Bluffs, Iowa
Ouren Seed Co.
Council Bluffs, Iowa
(See Adv. on Page 59)
Scoffeld Co., Roy A.
Council Bluffs, Iowa
Younkerman Seed Co.
Council Bluffs, Iowa
Younkerman Seed Co.
Davenport, Iowa

Davenport Seed Co.

Davenport, Iowa

(See Adv. on Page 39)

Standard Seed Co.

Des Moines. Iowa

Dubuque Seed Co.

Dubuque, Iowa

Davenport Seed Co.

Dubuque, Iowa

Dakota Improved Seed Co. Emmetsburg, Iowa (See Adv. on Page 57)

Northwestern Seed Co.

Northwestern Seed Co.

Keokuk, Iowa

(See Adv. on Page 59)

Nishna Valley Seed Co. (Seed Corn)

Shenandoah, Iowa

Sioux City Seed Co.

Sioux City, Iowa

(See Adv. on Pages 73 and 95)

Wertz Seed Co.

Sioux City, Iowa

#### KANSAS

Assaria Hardware Co. Assaria Hardware Co.
Assaria, Kan.
Mangelsdorf & Co., F. A.
Atchison, Kan.
Frazier's Seed Store
Coffeyville, Kan.
Bowman Seed Co.
Concordia, Kan.
Union Seed Warehouse
Kirwin, Kan.
Barteldes Seed Co.

Kirwin, Kan.
Barteldes Seed Co.
Lawrence, Kan.
Northwestern Seed House
Oberlin, Kan.
Henning Seed Co.
Salina, Kan.
Salina Produce Co.
Salina, Kan.
Salina Seed Co.
Salina, Kan.
Sedgwick Alfalfa Mills
Sedgwick Alfalfa Mills
Sedgwick, Kan.
Alfalfa Valley Seed Co.
Stafford, Kan.
Coe Seed & Grain Co., D. O.
Topeka, Kan.
Ross Bros. Seed Co.
Wichita, Kan.

KENTUCKY

Kentucky Lespedeza Growers Assn., Inc. Eminence, Ky.

Kentucky-Tennessee Sericea Assn. Fulton, Ky.

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Cayce-Yost Co. (Lespedeza)
Hopkinsville, Ky.
Brent Seed Co., The C. S.
Lexington, Ky.
(See Adv. on Page 39)
Chambers Seed Co.
Louisville, Ky.
Hall Seed Co.
Louisville, Ky.
Lewis Implement & Seed Co.
Louisville, Ky.
Louisville Seed Co.
Louisville, Ky.
(See Adv. on Page 61)
Ross Seed Co. Cayce-Yost Co. (Lespedeza)

Ross Seed Co.
Louisville, Ky.
(See Adv. on Page 39)
Watts, Owen T.

Louisville, Ky.

(See Adv. on Page 31)

Meacham, Chas. M., Jr. (Lespedeza)

Morganfield, Ky.

Yopp Seed Co.

Paducah, Ky.

Brent & Co., Inc.

Paris, Ky.

Spears & Sons, Woodford

Paris, Ky.

Spears-Kiser Co.

Paris, Ky. Louisville, Ky.

Paris, Ky.
Wilson, Jas. S.
Paris, Ky.
Walters & Thompson
Shelbyville, Ky.
Kentucky Blue Grass Seed Growers Cooperative Assn.

Winchester, Ky. Mahan Co. Winchester, Ky.

#### LOUISIANA

Beridon, Jr., E. J.
Hamburg, La.
(See Adv. on Page 23)
Bacque Seed Co.

Lafayette, La.

Coco & Roy Seed Co. (White Clover) Moreauville, La.

Reuter Seed Co., Inc. New Orleans, La. Kalmbach-Burckett Co., Inc. Shreveport, La. Wilson Seed Co., Lane

Shreveport, La.

#### MARYLAND

Belt Seed Co. Baltimore, Md. Blamberg Bros., Inc.
Baltimore, Md.
(See Adv. on Page 23)
Scarlett & Co., Wm. G.
Baltimore, Md.
(See Adv. on Page 40)

(See Adv. on Page 40)

#### **MASSACHUSETTS**

Breck & Sons Corp., Jos. Boston. Mass. Dickinson Co., The Albert Boston, Mass. (See Adv. on Page 132)
Emerson Co., Thos. W.
Boston, Mass.
Ross Bros. Co.
Worcester, Mass.

#### **MICHIGAN**

King & Sons, H. C.
Battle Creek, Mich.
(See Adv. on Page 27)
Brown Seed Co., Alfred J.
Grand Rapids, Mich.
(See Adv. on Page 11)
Isbell Seed Co.
Jackson. Mich. Jackson, Mich.

(See Adv. on Page 27)

McLaughlin Ward & Co.

Jackson, Mich.

MINNESOTA

Farmer Seed & Nursery Co.
Faribault, Minn.
(See Adv. on Page 115)
Archer-Daniels-Midland Co. (Seed Oats)

Minneapolis, Minn.

Dickinson Feed & Seed Co.

Minneapolis, Minn.

Farm Service Stores, Inc.

Minneapolis, Minn.

Land O'Lakes Creameries, Inc. (Sweet

Clover)

Clover)
Minneapolis, Minn.

Minneapolis Seed Co.
Minneapolis, Minn.
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Northrup, King & Co.
Minneapolis, Minn.
(See Adv. on Page 5)

Moorhead Farmers Elevator C.

Moorhead Farmers Elevator Co.
Moorhead, Minn.
Thief River Falls Seed House
Thief River Falls, Minn.
Peterson-Biddick Co.
Wadena Minn

Wadena, Minn.
Dill Co., J. G.
Wabasha, Minn.
Northern Field Seed Co.

Winona, Minn.

#### **MISSISSIPPI**

Rose Seed Co.
Clarksdale, Miss.
Pace Seed & Supply Co.
Cleveland, Miss.
Williams Co., P. P.
Vicksburg, Miss.
Harris Seed & Feed Co.
Yazoo City Miss Yazoo City, Miss.

#### MISSOURI

Adams Seed Co., T. Lee
Kansas City, Mo.
(See Adv. on Page 41)
Bagnall, Howard E.
Kansas City, Mo.
Peppard Seed Co.
Kansas City, Mo.
Rudy-Patrick Seed Co.
Kansas City, Mo.
(See Adv. on Page 39)
Maupin Seed Co.
King City, Mo.
Chesmore Seed Co.
St. Joseph, Mo.

St. Joseph, Mo. Kellogg-Kelly Seed Co. St. Joseph, Mo.

(See Adv. on Page 61)

Mitchelhill Seed Co.
St. Joseph, Mo.
Corneli Seed Co.
St. Louis, Mo.
(See Adv. on Page 25)
Mangelsdorf & Bro., Ed. F.

St. Louis, Mo.

(See Adv. on Page 13)

Prunty Seed & Grain Co.
St. Louis, Mo.

St. Louis Seed Co. St. Louis, Mo. Scott, T. Maurice

St. Louis, Mo.
(See Adv. on Page 61)
Springfield Seed Co.
Springfield, Mo.
Wood-Beazley Seed Co.

Springfield, Mo.

#### MONTANA

Elliott Seed Co.
Billings, Mont.
Northern Montana Alfalfa Growers' Assn Glasgow, Mont.
Barkemeyer Seed Co.
Great Falls, Mont.
State Nursery & Seed Co.
Helena, Mont.
Phillips County Cooperative Marketing

Phillips County Cooperative Marketing Assn. (Grimm and Ladak Alfalfa) Malta, Mont.

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#### WHOLESALE FIELD SEEDS-Continued

Lakin Seed Co. (Alfalfa)
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Northland Seed Co. Sidney, Mont.

NEBRASKA

Bonahoom Seed Co.

Hastings, Neb.
Griswold Seed & Nursery Co.
Lincoln, Neb.

Lincoln, Neb.

(See Adv. on Page 65)
Carberry Seed Co.
Norfolk, Neb.
Allied Seed Co.
Omaha, Neb.
Nebraska Seed Co.
Omaha, Neb.
(See Adv. on Page 9)
Campbell, Henry.
Seward, Neb.
Bowman Seed Co., The
Superior, Neb.

**NEW HAMPSHIRE** 

Varick Co., Jno. B. Manchester, N. H.

**NEW JERSEY** 

Doughten Seed Co., The Jersey City, N. J.

**NEW MEXICO** 

Mitchell, E. W. Roswell, N. Mex.

NEW YORK

Conklin-Sullivan Co. Binghamton, N. Y.
Cone, Arthur R.
Buffalo, N. Y.
Craver-Dickinson Seed Co.

Craver-Dickinson Seed Co.

Buffalo, N. Y.

(See Adv. on Page 13)

Harvey Seed Co.

Buffalo, N. Y.

Stanford Seed Co.

Buffalo, N. Y.

Whitney-Eckstein Seed Co.

Buffalo, N. Y.

Whitney-Eckstein Seed Co.

Buffalo, N. Y.

Page Seed Co.

Greene, N. Y.

(See Adv. on Page 57)

Dickinson Co., The Albert

New York, N. Y.

(See Adv. on Page 132)

Duryea Seed Co., Inc.

New York, N. Y.

(See Adv. on Page 63)

Loechner & Co., Inc.

New York, N. Y.

(See Adv. on Page 83)

Loewith, Inc., Julius

New York, N. Y.

Loewith, Inc., Julius
New York, N. Y.
(See Adv. on Page 63)

(See Adv. on Page 63)

McHutchison & Co.
New York, N. Y.
(See Adv. on Page 161).

Radwaner Seed Co., I. L.
New York, N. Y.
(See Adv. on Page 63)

Stumpp & Walter Co.
New York, N. Y.
Williamson, Garfield
New York, N. Y.
(See Adv. on Page 92)

Gardner Seed Co.
Rochester, N. Y.

Rochester, N. Y.

NORTH CAROLINA

Asheville Seed Co. Asheville, N. G. Brabham Seed Co. Brabham Seed Co.
Charlotte, N. C.
Buxton White Seed Co.
Elizabeth City, N. C.
Wyatt & Sons Co., Job P.
Raleigh, N. C.
Blount-Midyette & Co., Inc. (Soybeans)
Washington, N. C.

Roudabush's Seed Store Wilmington, N. C.

NORTH DAKOTA

Dacotah Seed Co.
Bismarck, N. D.
Goldberg Seed & Feed Co.
Fargo, N. D.
Interstate Seed & Grain Co.
Fargo, N. D.

Fargo, N. D.

(See Adv. on Page 41)

Magill & Co. (Operating Fargo Seed House)
Fargo, N. D.

Fargo, N. D.

Newday Seeds, Inc. (Sweet Clover)
Fargo, N. D.

(See Adv. on Page 25)

Grand Forks Seed Co.

Grand Forks, N. D.

Aney Seed & Nursery Co., Roy

Minot, N. D.

Valker-Christensen Co.

Minot, N. D.

OHIO

Healy Seed Co.
Belle Center, Ohio
Market Gardeners' Seed Co.

Market Gardeners' Seed Co.
Cincinnati, Ohio
(See Adv. on Page 63)

McCullough Seed Co., The J. Chas.
Cincinnati, Ohio
(See Adv. on Page 65)

McCullough's Sons Co., The J. M.
Cincinnati, Ohio
(See Adv. on Page 63)

Botzum Bros. Seed Co.

Botzum Bros. Seed Co. Cleveland, Ohio

Livingston Seed Co. Columbus, Ohio Hoyt Co., The A. C. Fostoria, Ohio

O. & M. Seed Co.

Green Springs, Ohio (See Adv. on Page 115)

Eikenberry Bros. Co. Hamilton, Ohio

Ackerman Company Lima, Ohio

(See Adv. on Page 27)
Scott & Sons Co., O. M.
Marysville, Ohio
(See Adv. on Page 31)

Cover Seed Co., U. J. Mt. Gilead, Ohio Mt. Gilead, Ohio
Ingersoll Co., The Chas. M.
Rocky River, Ohio

Brown Seed Co.
St. Paris, Ohio
Flower Co. & Co., S. W.
Toledo, Ohio

Hirsch & Sons, Henry Toledo, Ohio (See Adv. on Page 7)

OKLAHOMA

Chickasha Seed Growers Co. Chickasha, Okla.

Muskogee Seed House Muskogee, Okla.

Clarke & Keller Seed Store Shawnee, Okla.

Binding-Stevens Seed Co. Tulsa, Okla.

OREGON

Albany Seed Co.

Albany, Ore. (See Adv. on Page 41)

Senders & Co., M. Albany, Ore.

Engbretson Seed Co. (Bent Grass)
Astoria, Ore.
Hand Seed Co., Inc., A. M.
Portland, Ore.

Lilly Co., The Chas. H. Portland, Ore.

(See Adv. on Page 79) Merchandise and Seedsmen's Supplies Index-Pages 4 and 6

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North Coast Seed Co. Portland, Ore.
Portland Seed Co.,
Portland, Ore.
Jenks White Seed Co.
Salem, Ore. (See Adv. on Page 25)

#### **PENNSYLVANIA**

Schell, Inc., Walter S. Harrisburg, Pa. Allied Seed Co. Philadelphia, Pa. Atlantic Seed Co.
Philadelphia, Pa.
Philadelphia Seed Co. (Fancy Grasses) Philadelphia, Pa.
(See Adv. on Page 26)
Dickinson Co., The Albert Pittsburgh, Pa. (See Adv. on Page 132)

#### RHODE ISLAND

Barrett Co., The W. Providence, R. I.

#### SOUTH CAROLINA

Mixson Seed Co., Inc., W. H. Charleston, S. C. Caughman Feed & Seed Co. Columbia, S. C. Kirkland Seed Co., B. B. Columbia, S. C. Shuler & Smark Shuler & Smoak Orangeburg, S. C. (See Adv. on Page 29)

#### SOUTH DAKOTA

Sexauer & Son, George P.
Brookings, S. D.

Dakota Improved Seed Co.
Mitchell, S. D.
(See Adv. on Page 57)

Western South Dakota Alfalfa Seed Growers Exchange
Rapid City, S. D.

Sioux City Seed Co.
Sioux Falls, S. D.

(See Adv. on Pages 73 and 95)

McMahon, M. A.
Sturgis S. D. Sturgis, S. D.

#### TENNESSEE

Largen Lespedeza Co.
Fayetteville, Tenn.
Coats, W. J.
Greenfield, Tenn.
London Hardware Co.
Johnson City, Tenn. Mayo, D. R. Knoxville, Tenn. Knoxville, Tenn.

Security Mills
Knoxville, Tenn.

Buchanan Seed Co., R. B.
Memphis, Tenn.

Cook. L. P.
Memphis, Tenn.

Fidelity Seed Co.
Memphis, Tenn.

Russell-Heckle Seed Co.
Memphis, Tenn.

Dobson-Hicks Co.
Nashville, Tenn.

#### TEXAS

Roberts Grain Co.
Amarillo, Texas
Eastern Seed Co.
Corpus Christi, Texas
Hardie Seed Co., David
Dallas, Texas
Magnolia Seed Co.
Dallas, Texas
Nicholson Seed Co., Robert
Dallas, Texas
Ferguson Seed Farms
Howe, Texas

Acme Seed Co.
Lubbock, Tex.
Cone Grain & Seed Co., S. E.
Lubbock, Texas
Satex Seed Co. San Antonio, Tex.
Staffel Co., Ferd.
San Antonio, Tex.
Martin-Lane Co.
Vernon, Texas
Ruhman Gray & Sand Ruhman Gram & Seed Co. Waco, Tex.

#### UTAH

Bailey & Sons Co.
Salt Lake City, Utah
Kelly-Western Co.
Salt Lake City, Utah
Occidental Seed Co. Salt Lake City, Utah (See Adv. on Page 65) Westland Seed Co. Salt Lake City, Utah

#### VERMONT

Middlebrook & Sons, J. C. Burlington, Vt.

#### VIRGINIA

Gleason & Co., H. M.
Charlottesville, Va.
Smith Seed & Feed Co.
Danville, Va.
Wetsel Seed Co.
Harrisonburg, Va.
Grossman & Son, W.
Petersburg, Va.
Boehling & Co., F. H.
Richmond, Va.
Carter-Venable Co., Inc. Carter-Venable Co., Inc., The (Soybeans, Eureka Corn) Richmond, Va.

Diggs & Beadles Seed Co.

Richmond, Va.

Wood & Sons, T. W.

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#### WASHINGTON

Farley Seed Co. Bellingham, Wash. Skagit Seed Co. Mount Vernon, Wash. Zeb Seed Co Zeb Seed Co.

Mount Vernon, Wash.

Lilly Co., Chas. H.

Seattle, Wash.

(See Adv. on Page 79)

Northern Seed Growers

Seattle, Wash.

Northwest Seed Co.

Seattle, Wash.

Seattle Seed Co.

Seattle, Wash.

Spokane Seed Co. Spokane Seed Co. Spokane, Wash.

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DePere, Wis.
Wells Milling Co., A. G.
Depere, Wis.
Henry Michels Seed Co.
Fond du Lac, Wis.
Olds Seed Co., L. L.
Madison, Wis.
Standard Seed Co.
Madison, Wis.
Courteen Seed Co.
Milwaukee, Wis.
Crossland, W. H.
Milwaukee, Wis.
(See Adv. on Page 57)
Kellogg Seed Co.
Milwaukee, Wis.
Teweles Seed Co., L.
Milwaukee, Wis.
Cochrane Co., T. H.
Portage, Wis.

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Buenos Aires, Argentine

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Sydney, N. S. W., Australia
Austraseed Traders, Ltd.
Sydney, Australia
Brunnings Pty. Ltd., F. H.
Melbourne, Australia
Clements & Marghall Ltd

Melbourne, Australia
Clements & Marshall, Ltd.
Devonport, Tas., Australia
Denhams, Pty., Ltd.
Brisbane, Queensland, Australia
Farmer & Co., Pty., Ltd.
Melbourne, Australia
Foster & Sons, Ltd.
Sydney, Australia
Gippsland & Northern Co-op Co., Ltd.
Melbourne, Australia
Harrap & Son, Ltd., Alfred
Launceston, Tas., Australia
Hillsdon Watts, Ltd.
Mascot, Sydney, Australia
Jackson & Co. Pty., Ltd., J.
Brisbane, Queensland, Australia
Law, Somner & Co.
Melbourne, Australia
Peterson Bros. & Craig, Ltd.
Brisbane, Queensland, Australia
Railton, James
Melbourne, Vic., Australia

Brisbane, Queensland, Australia
Railton, James
Melbourne, Vic., Australia
River Don Trading Co., Ltd.
Devonport, Tas., Australia
Seccombe, W.
Coff's Harbour, N. S. W., Australia
Shepherd & Sons, Ltd.
Sydney, Australia
South Australian Farmers Co-op. Ltd.
Adelaide, S. A., Australia
Watter & Son Pty., Ltd.
Melbourne, Australia
Webb & Co., Ltd.
Devonport, Tas., Australia
Webster & Sons, A. G.
Hobart, Tas., Australia
Westralian Farmers Co-op., Ltd.
Perf. Australia

Perth, Australia
Yates & Co., Ltd., Arthur
Sydney, N. S. W., Australia

**AUSTRIA** 

Gebruder, Boschan Vienna, Austria Hernfeld, Adolph

Vienna, Austria

BELGIUM

Broucke & Fils
Ostende, Belgium
Cornelius, A. & C.
Arlon, Belgium

CHINA

Manshu Nosan Shokai, Inc. Dairen, South Manchuria, China

CZECHO SLOVAKIA

CZECHO SLOVAKIA

Arnost Bahlsen
Prague, Czecho Slovakia
Donat & Schuftan
Prague, Czecho Slovakia
Hollander, Jakob
Kosice, Czecho Slovakia
Loewenthal Brothers
Brno, Czecho Slovakia
Sachsel & Sons, E.
Prague, Czecho Slovakia

Prague, Czecho Slovakia Schon, Jacob S., Ltd.

Brno, Czecho Slovakia

**DANZIG** 

Handelsverband G.m.b.H.

Danzig

(See Adv. on Page 69)

"Nasiona" Landw. Handelsges, m.b.H. Langermarkt No. 1, Danzig (See Adv. on Page 69)

**DENMARK** 

Daehnfeldt, L., & Theodor Jensen Odense, Denmark

(See Adv. on Page 97)
Danielsen & Larsen, Ltd., E.
Nakskov, Denmark
Dansk Frokultur, A/S
Kerteminde, Denmark

Kerteminde, Denmark
Dreyer, Fr.
Aarhus, Denmark
Hartmann & Co., Hjalmar
Copenhagen, Denmark
(See Adv. on Page 83)
Hertz' Frokompagni A/S
(See Adv. on Page 83)
Copenhagen, Denmark
Jensens Eftf A/S, Jorgen
Copenhagen, Denmark
Morso Fro Kontor
Nykobing Mors, Denmark
Nordisk Fro Kontor
Copenhagen, Denmark
Olsen, Chr. A/S
Odense, Denmark
(See Adv. on Page 87)

(See Adv. on Page 87) Ostergaards Froavl

Stensballe, Horsens, Denmark

Simested, M.

Holstebro, Denmark

Stallknecht & Meyer

Copenhagen, Denmark

Trifolium A/S
Copenhagen, Denmark
Veit, Simon
Copenhagen, Denmark

#### ENGLAND

Burlingham, G., & Sons, Ltd.

Bury St. Edmunds, England

Dunns Farm Seeds, Ltd.

Salisbury, England

Eastes & Loud

Ashford, Kent, England

Eastern Counties Farmers' Co-Operative

Assn., Ltd.

Ipswich, England

Gascoyne Son & Buckland

Worcester, England

Goldsmith Bros., Ltd.

Bury St., Edmunds, England

Hasler & Co., Ltd.

Dunmow, Essex, England

Hurst & Son

Dunmow, Essex, England
Hurst & Son
London, England
Johnson & Son, Ltd., W. W.
Boston, England
Le May & Co., C. W.
London, England
McMaster & Frankish
Seething Lane, London, England
Pope & Chapman, Ltd.
Bishop's Stortford, England
Whalley, Ltd., Thomas
Liverpool, England
Woods, Sadd, Moore & Co., Ltd.
London, Norfolk, England

#### **ESTHONIA**

Esthonian Seed Co. Tallinn, Esthonia
Tonisson & Bros.
Tartu, Esthonia

#### FRANCE

Beillard, Frederic

Le Mans, Sarthe, France

Bernard, Paul

Avignon, Vaucluse, France
Blain, Felix
St. Remy de Provence, France
Cherot, Michel (broker)
Choisy-le-Roi, Seine, France
Cretin, L., & Co.
Charlieu, Loire, France

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#### FOREIGN FIELD SEEDS—Continued

Desjobert & Fils, E.
Moulins, Allier, France Galabert, Fnd.

Caussade (Tarn-et-Garonne), France

Godineau, R.

Angers, Maine & Loire, France

Guignard, A.
Tours, France
Legrand, Paul

Moulins, Allier, France
Les Fils de Labbe Leplatre
Orleans, Loiret, France

Loras Cyprien Lyon, Rhone, France

Palisse, H.

Chateauroux, Indre, France

Montelimar, Drome, France

Planchard, Cayla & Co.
Paris, France
Rousset & Fils
Paris, France
Salmon, Maurice (broker)
Paris, France

Simon Louis Freres & Cie

Bruyeres-le-Chatel (Seine-et-Oise), France

Societe d'Exportation des Graines de Provence

Graveson, France
Tezier Freres
Valence-Sur-Rhone, France
Zidranski, Charles (Broker)
Paris, France

#### GERMANY

Appel, Conrad

Appel, Conrad
Darmstadt, Germany
Becker, Hch. A.-G.
Heilbronn A. N., Germany
Bitterhoff, Sohn, August
Berlin, Germany
Boettcher, Jun., Otto
Gross-Tabarz (Thuer.), Germany
Boettcher & Voelcker
Tabarz in Thuringen, Germany
Boettcher, Inc., Otto
Tabarz in Thuringen, Germany
Bruhn, D. P., G.m.b.h.
Kiel, Germany
Christensen, V. L.
Erfurt, Germany
DeWit, John (broker)
Hamburg, Germany
Ernst und von Spreckelsen
Hamburg, Germany
Fiegel, Benno
Berlin, Germany
Friedebergs Wive, Gustav
Stettin, Germany
Funk & Kerstan
Stettin, Germany
Ganzer & Spiessbach
Halle, Saale, Germany
Gebruder Dippe, A. G.
Quedlinburg, Germany
Gebruder Kallmeyer, A. G.
Erfurt, Germany

Gebruder Kallmeyer, A. G. Erfurt, Germany

Geucke, Rudolf

Hamburg, Germany
Haage, Franz Anton
Erfurt, Germany
Karkutsch & Co.
Stettin, Germany

Keller Sohn, Heinrich Darmstadt, Germany

Kloster, A. P. Flensburg, Germany

Knoll, K.

Bamberg, Germany. Le Coq & Co., A. G., A. Darmstadt, Germany

Liefmann'Sohne Nachf, R. Hamburg, Germany

Metz & Co.

Berlin-Steglitz, Germany

Müller & Co., D.

Hamburg, Germany

Noth, Jr., Johs
Fishbach (Gotha), Germany
Nungesser, L. C.
Griesheim near Darmstadt, Germany

Pehle & Beckmann Leer in Ostfriesland, Germany

Robra, Carl Aschersleben. Germany

Sachs, David

Quedlinburg, Germany

Schott, Gustav

Aschaffenburg, Germany
Steingaesser & Co., G. J.
Miltenberg, Bavaria, Germany
Weise & Pfaffe

Halle, Germany
Wissinger, G.m.b.H., A. & W.
Berlin, Germany

Zuelzer, Gustav

Hamburg, Germany

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HOLLAND

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Arnhem, Holland
Busgers, W. E. & Co.
Arnhem, Holland
DeGroot, Van Nes & Co.
Rotterdam, Holland
Hermans, J. B.
Maasbracht, Holland
Hommo Ten Have's Seed Co.
Scheemda, Holland
Nederlandsche Elite Zaad Maatschappy
(Sugar Beet)
Hillegom, Holland
Oudyk, Gebr.
Waddinxveen, Holland
Poortman, A.

Poortman, A.
Rotterdam, Holland
Robertus, Ltd., J. L.
Winschoten, Holland
Zwaan & de Wiljes Seed Co., Inc.
Scheemda, Holland.

#### HUNGARY

Fekete Brothers: Wholesale Seed Merchants Co., Ltd. Budapest, Hungary

Hungarian Seed Culture Co., Ltd.
Budapest, Hungary
Mauthner, Ltd., Edmund
Budapest, Hungary

Tibor, Kemeny

Budapest, Hungary (See Adv. on Page 69)

#### INDIA

American Seed & Nursery Co.

Lahore, India Sulabh Nursery & Seed Co. (Jute Seed)

Calcutta, India

#### IRELAND

Coburn & Son, Jas.
Banbridge, Ireland
McCausland, Samuel
Belfast, Ireland
McClinton & Co.
Belfast, Ireland

Morton, Jos

Banbridge, Ireland

#### ITALY

Fasolo, Angelo Bologna, Italy

Pini, Ernesto

Bologna, Italy Sgaravatti Bros.-Sementi Padova, Italy

Sancho Schoten Bandaidio, Yokohama, Japan

#### **JUGOSLAVIA**

Jankomir d. d.

Zagreb, Croatia

Osijek, Slovenia

#### FOREIGN FIELD SEEDS-Continued

Teply, B. Zagreb, Croatia
Todor Mraovic i Drug,
Belgrade, Serbia

#### LATVIA

Jacobowitz, Ltd., Heyman Riga, Latvia Jachmann, R. Riga, Latvia

#### **NEW ZEALAND**

Canterbury Seed Co., Ltd.
Christchurch, New Zealand
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Wellington, New Zealand
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Christchurch, New Zealand
Montgomery & Co.. J.
Christchurch, New Zealand
Murray, Roberts & Coy, Ltd.
Dunedin, New Zealand
National Mortgage & Agency Co. of New Zealand, Ltd.
Dunedin, New Zealand
Nimmo & Blair, Ltd.
Dunedin, New Zealand

Paterson & Co., A. S.

Dunedin, New Zealand
(See Adv. Below)

Wright, Stephenson & Co., Ltd.
Wellington, New Zealand

Yates & Co., Arthur
Auckland, New Zealand

#### NORWAY

Bauman, Jos.
Oslo, Norway
Faelleskjopet
Oslo, Norway
Faelleskjopet
Trondheim, Norway
Grimstad Gartneri
Grimstad, Norway
Michelet, A.
Oslo, Norway
Norsk Froforsyning, A. S.
Hamar, Norway
Norsk Fro., A. S.
Oslo, Norway
Rogalands Faelleskjop
Stavanger, Norway
Vestlandske Kjopelag
Bergen, Norway

#### POLAND

Buszczynski & Sons, K. Warsaw, Poland Spira, David Krakow, Poland

#### SCOTLAND

Bell Ltd., David
Leith, Scotland
Cross Seed Co., Ltd., Alexander
Glasgow, Scotland
Donaldson & Co., Ltd., John
Edinburgh, Scotland
Lawson & Son. Ltd., Peter
Edinburgh, Scotland

#### SOUTH AFRICA

Starke & Co., Ltd. Mowbray, Capetown. South Africa

#### **SPAIN**

Moderno Cultivador Barcelona, Spain

#### **SWEDEN**

Allmanna Svenska Utsadesaktiebolaget
Svalof, Sweden
Bjorkmann, Eftr. Aktiebolaget, A. & Co.'s
Stockholm, Sweden
Engstrom Aktiebolaget, Carl
Eslof, Sweden
Hallands Frokontor, Aktiebolaget
Getinge, Sweden
Holmberg Aktiebolaget, Algot & Son
Norrkoping, Sweden
Olson Aktiebolag, Otto J., & Sons
Hammenhog, Sweden
Skane-Hallands Utsades A-B.
Helsingborg, Sweden
Weibull Aktiebolaget, W.
Landskrona, Sweden

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Haubensak Sohne, Friedr.
Basel, Switzerland
Mauser, Emil
Zurich, Switzerland
Muller & Cie, E., S-A.
Zurich, Switzerland
Schweizer & Cie
Thun, Switzerland
Vatter, G. R.
Bern, Switzerland
Verband Ostschweiz. Landwirt.
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Birmingham, Ala.
Pharr Co., King (Okra)
Catherine, Ala.
Poyner Seed Co.
Dothan, Ala.
Wind & Co., I.
Huntsville, Ala.
Van Antwerp Seed Co.
Mobile, Ala.

### ARKANSAS

Lee, Arthur G.
Fort Smith, Ark.
Bass-Isgrig Seed Co.
Little Rock, Ark.
Cochran Co., H. K.
Little Rock, Ark.
Texarkana Seed House,
Texarkana Ark Texarkana, Ark. Word Seed Store Texarkana, Ark.

### CALIFORNIA

' Fish, Henry Berrien Seedsmen (Beans) Carpinteria, Calif. (See Adv. on Page 71)

(See Adv. on Page 71)

Bodger Seeds, Ltd.

El Monte, Los Angeles County, Calif.
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Aggeler & Musser Seed Co., Inc.
Los Angeles, Calif.

Germain Seed & Plant Co.
Los Angeles Calif.

Los Angeles, Calif.

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Southern California Seed Co.

Los Angeles, Calif.

Lagomarsino & Sons, F.

Lagomarsino & Sons, F.
Sacramento, Calif.
(See Adv. on Page 34)
Kellogg Seed Co. of California
Salinas, Calif.
Bertrand Seed Co.
San Francisco, Calif.
(See Adv. on Page 79)
Ferry-Morse Seed Co.
San Francisco, Calif.
(See Adv. on Page 76)
Oriental Seeds & Plants Co.
San Francisco, Calif.
(See Adv. on Page 71)
Pacific Seed Co.
San Francisco, Calif.

Pacific Seed Co.
San Francisco, Calif.

Sherwood Seed Co.
San Francisco, Calif.
(See Adv. on Page 47)

Haven Seed Co. (Tomatoes)
Santa Ana, Calif.
(See Adv. on Page 77)

McCrea Seed Co.
Santa Barbara, Calif. Santa Barbara, Calif.

Santa Barbara, Calif.
(See Adv. on Page 75)

Hedrick & Sweetland
Santa Paula, Calif.
(See Adv. on Page 79)

Paramount Seed Co.
Stockton, Calif.
(See Adv. on Page 23)

Standard Seed Farms Co.
Stockton, Calif.
(See Adv. on Page 100)

### CANADA

McKenzie Co., Ltd., A. E.
Brandon, Manitoba, Can.
Bruce & Co., Ltd., John A.
Hamilton, Ont., Can.
Ewing, The Wm. Co., Ltd.
Montreal, Quebec
Keith & Sons, Geo.
Toronto, Canada
Bennie Seeds Ltd. Wm. Rennie Seeds, Ltd., Wm. Toronto, Canada

Steele, Briggs Seed Co., Ltd. · Toronto, Canada (See Adv. on Page 35)

### COLORADO

Barteldes Seed Co. Denver, Colo. Colorado Seed Co. Denver, Colo. Denver, Colo.

Rocky Mountain Seed Co.
Denver, Colo.
Simpson Seed & Floral Co.
Denver, Colo.
Western Seed Co.
Denver, Colo.
Grand Junction Seed Co.

Grand Junction Seed Co. Grand Junction, Colo.

(See Adv. on Page 71) Balcom Seed Co.
Greeley, Colo.
Burrell Seed Growers Co. Rocky Ford, Colo.
James, R. H.
Rocky Ford, Colo.

### CONNECTICUT

Associated Seed Growers, Inc. New Haven, Conn. (See Adv. on Page 99)

(See Adv. on Page 99)

Comstock, Ferre & Co.
Wethersfield, Conn.
(See Adv. on Page 91)

Hart Seed Co., Chas. C.
Wethersfield, Conn.
(See Adv. on Page 45)

Woodruff & Sons, F. H.
Milford, Conn.
(See Adv. on Front Cover)

Woodruff & Sons, S. D.
Orange, Conn.

### FLORIDA

Shreve Seed Co.
Chipley, Fla.
Gilbert, D. H. (Watermelon)
Monticello, Fla.
(See Adv. on Page 71)
Seed Co., The Kilgore Seed Co., The
Plant City, Fla.
Crenshaw-McMichael Seed Co. Tampa, Fla. Security Feed & Seed Co. Tampa, Fla.

### GEORGIA

Athens Seed Co. Athens, Ga.
(See Adv. on Page 57)
Hastings-Associated Seeds, Inc. Atlanta, Ga. (See Adv. on Page 99) Walton Seed Co. Augusta, Ga. Curry-Arrington Seed Co. Rome, Ga.

### **IDAHO**

Filer Seed Co.
Blackfoot, Ida.
Crookham Co.
Caldwell, Ida.
Oakes & Co., Edgar L. (Sweet Corn)
Caldwell, Ida. Duthie Co. Lewiston, Ida. Mark Means Seed Co. Lewiston, Ida. Moscow-Idaho Seed Co. (Peas and Beans) Moscow, Ida.

Washburn Wilson Seed Co.

Moscow, Ida.

(See Adv. on Page 31)

### **WESTERN COLORADO SEEDS**

Are grown under different seasonal conditions. We are not liable to have short crops on the same items in the same season as other sections. This insures your contract against shortages on high priced items.

Beans, Carrot, Sweet Corn, Cucumber, Lettuce, Muskmelon, Onion, Parsnip, Peas, Pepper, Pumpkin, Squash, Tomato, Zinnias.

High Altitude Growing gives these seeds Earlier Maturity and Stronger Vitality.

THE GRAND JUNCTION SEED CO.

**Grand Junction, Colorado** 

# ORIENTAL SEEDS



### FLOWER - VEGETABLE

MAMMOTH TURNIP
ICICLE RADISH
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CHINESE CABBAGE
GENUINE WONG-BOK
PE-TSAI CHILI

ORIENTAL SEEDS & PLANTS CO., INC.
1707-1709 GEARY STREET
SAN FRANCISCO - - CALIFORNIA

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All standard sorts and many new varieties.

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I Grow the Seed I Sell

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# HENRY BERRIEN FISH SEEDSMEN WHOLESALE GROWERS

CARPINTERIA

**CALIFORNIA** 

### WHOLESALE GARDEN SEEDS—Continued

### ILLINOIS

Barnard Co., The W. W. Chicago, Ill.

Leonard Seed Co.

nard Seeu Co.
Chicago, Ill.
(See Adv. on Third Cover)
Cors Bros. Seed Co. Rogers Bros.

(See Adv. on Rear Cover)
Vaughan's Seed Store
Chicago, Ill.
Condon Bros. Seedsmen
Rockford, Ill.

### **INDIANA**

Crabbs, Reynolds, Taylor Co. Crawfordsville, Ind.
Ohio Valley Seed Co.
Evansville, Ind.
Everitt's Seed Store Indianapolis, Ind. Warren Seed Co.
Indianapolis, Ind.
Indiana Seed & Plant Co.
Richmond, Ind.
Quinlan Seed Store Terre Haute, Ind.

### TOWA

Standard Seed Co.

Des Moines, Ia.

Dakota Improved Seed Co.

Emmetsburg, Iowa

(See Adv on Page (See Adv. on Page 57)

Webster Co., Mel L.
Independence, Ia.

Midwest Seed Co.
Perry, Iowa
Sioux City Seed Co.
Sioux City, Ia.
(See Adv. on Pages 79 and 95)

### KANSAS

Mangelsdorf & Co., F. A. Atchison, Kan. Bowman Seed Co., The Concordia, Kan.
Barteldes Seed Co.
Lawrence, Kan. Coe Seed & Grain Co., D. O. Topeka, Kan. Ross Bros. Seed Co. Wichita, Kan.

### KENTUCKY

Brent Seed Co., C. S. Lexington, Ky. (See Adv. on Page 39) Bunton Seed Co. Louisville, Ky. Hall Seed Co. Louisville, Ky. Yopp Seed Co. Paducah, Ky.

### **LOUISIANA**

Reuter Seed Co., Inc.
New Orleans, La.
Kalmbach-Burckett Co., Inc. Shreveport, La.

### MARYLAND

Blamberg Brothers, Inc. Baltimore, Md. (See Adv. on Page 23)
Manns & Co., J.
Baltimore, Md.
Meyer Seed Co., The
Baltimore, Md.

### **MASSACHUSETTS**

Breck & Sons, Joseph Boston, Mass.
Emerson Co., Thos. W.
Boston, Mass.
Ross Bros. Co.
Worcester, Mass.

### MICHIGAN

American Seed Co.
Detroit, Mich.
Ferry-Morse Seed Co.
Detroit, Mich.

Brown Seed Co., Alfred J.
Grand Rapids, Mich.
(See Adv. on Page 11)
Brown & Son, Inc., A. J. (Peas and Beans)
Grand Rapids, Mich.
Isbell Seed Co.
Jackson, Mich.
(See Adv. on Page 27)

### MINNESOTA

Farmer Seed & Nursery Co.
Faribault, Minn.
(See Adv. on Page 115)
Northrup, King & Co.
Minneapolis, Minn.

(See Adv. on Page 5)

### MISSISSIPPI

Wright Seed Co. (Beans)
Centreville, Miss.
Rose Seed Co.
Clarksdale, Miss.
Kimbrough Seed Co.
Meridian, Miss.

### **MISSOURI**

Adams Seed Co., T. Lee
Kansas City, Mo.
(See Adv. on Page 41)
Rudy-Patrick Seed Co.
Kansas City, Mo.
(See Adv. on Page 39)
Chesmore Seed Co.
St. Joseph. Mo.

St. Joseph, Mo. Mitchelhill Seed Co. St. Joseph, Mo.
Corneli Seed Co.
St. Louis, Mo.
(See Adv. on Page 25)

St. Louis Seed Co. St. Louis, Mo.
United States Seed Co.
St. Louis, Mo.

### MONTANA

Elliott Seed Co.
Billings, Mont.
State Nursery & Seed Co.
Helena, Mont.
Northland Seed Co. Sidney, Mont.

### **NEBRASKA**

Western Seed & Irrigation Co. Fremont, Neb. Griswold Seed & Nursery Co. Lincoln, Neb.
(See Adv. on Page 65)
Nebraska Seed Co. Omaha, Neb.

(See Adv. on Page 9)

Bowman Seed Co., The

Superior, Neb.

The J. C. Robinson Seed Co.

### **NEW JERSEY**

White Co., Joseph (Tomato and Pepper)
Bridgeton, N. J.
(See Adv. on Page 91)
Pedrick & Sons, Geo. R.
Pedricktown, N. J.
Hurff, Edgar F.
Swedeshore N. J. Swedesboro, N. J. (See Adv. on Page 45)

Waterloo, Neb. (See Adv. on Page 99)

### **NEW YORK**

Harvey Seed Co.
Buffalo, N. Y.
Rice Seed Co., Jerome B.
Cambridge, N. Y.
(See Adv. on Page 45)
Denison Seed Co., W. A.
Ellisburg, N. Y.

Directory Section Index-Page 4

HERBST BROTHERS, INC.

92 WARREN STREET

NEW YORK, N.Y.

**EXPORTERS AND IMPORTERS** of vegetable, flower and fancy grass seeds seeds for the nursery and reforestation projects a specialty.

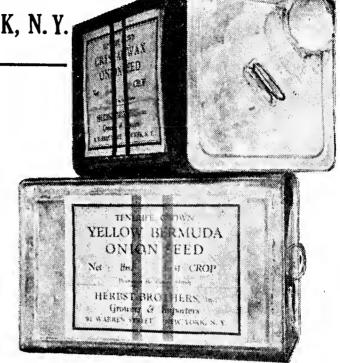
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Offers of seed suitable for introduction and sale in the United States solicited.

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T. SAKATA & COMPANY YOKOHAMA JAPAN

See Color Insert Page 131



Growers and distributors of Tenerife grown Bermuda and Genuine Sweet Spanish Valencia Onion Seeds.

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Honestly grown from the finest stocks and with utmost care. Growing stations throughout the middle and northwest.

FOR 50 YEARS

Breeders and Growers for the Wholesale Trade

### WHOLESALE GARDEN SEEDS—Continued

Page Seed Co.
Greene, N. Y.
(See Adv. on Page 57)
Lupton & Son, J. M.
Mattituck, L. I., N. Y. Mattituck, L. I., N. I.

Herbst Bros.
New York, N. Y.
(See Adv. on Pages 73 and 131)

Loechner & Co., Inc.
New York, N. Y.
(See Adv. on Page 83)

Madsen & Co., Thos.
New York, N. Y.
Stumpp & Walter Co.
New York, N. Y.
Suhr Co., E.
New York, N. Y.
(See Adv. on Page 81)

Vaughan's Seed Store
New York, N. Y.
Williamson, Garfield
New York City
(See Adv. on Page 92)

Gardner Seed Co.
Rochester, N. Y. Herbst Bros. Rochester, N. Y. NORTH CAROLINA

Buxton White Seed Co.
Elizabeth City, N. C.
Hornaday Seed Co.
Greensboro, N. C.
Wyatt & Sons Co., Job P.
Raleigh, N. C.
Roudabush's Seed Store
Wilmington, N. C.

### NORTH DAKOTA

Magill & Co. (Operating Fargo Seed House) Fargo, N. D.

Botzum Bros. Seed Co.
Akron, Ohio
Holmes Seed Co. Canton, Ohio Letherman Seed & Supply Co. Canton, Ohio Schilder Bros. (Onion Seed and Sets)
Chillicothe, Ohio
McCullough Seed Co., J. Chas. Cincinnati, Ohio
(See Adv. on Page 65)
McCullough's Sons Co., J. M. Cincinnati, Ohio
(See Adv. on Page 63)
Market Gardener's Seed Co.

Cincinnati, Ohio
(See Adv. on Page 63)
Davis, Zack Delaware, Ohio O. & M. Seed Co. Green Springs, Ohio
(See Adv. on Page 115)
Ingersoll Co., The Chas. M.
Rocky River, Ohio
Woodruff & Sons, F. H. Toledo, Ohio (See Adv. on Front Cover)

### **OKLAHOMA**

Muskogee Seed House Muskogee, Okla. Clarke & Keller Seed Store Shawnee, Okla. Binding-Stevens Seed Co. Tulsa, Okla.

### **OREGON**

Hand Seed Co., Inc., A. M.
Portland, Ore.
Lilly Co., The Chas. H.
Portland, Ore.
(See Adv. on Page
North Coast Seed Co.
Portland, Ore. on Page 79) Portland, Ore.
Portland Seed Co.
Portland, Ore.
Portland, Ore.
Jenks White Seed Co. Salem, Ore. (See Adv. on Page 25) . PENNSYLVANIA

Landreth Seed Co., D. Bristol, Pa.

(See Adv. on Page 3)
Schell, Inc., Walter S.
Harrisburg, Pa.

Harrisburg, Pa.

Buist Co., Robert
Philadelphia, Pa.
(See Adv. on Page 75)

Burpee Co., W. Atlee
Philadelphia, Pa.
(See Adv. on Page 103)

Michell Co., Henry F.
Philadelphia, Pa.
Simon & Son, I. N.
Philadelphia, Pa.
(See Adv. on Page 75)

### RHODE ISLAND

Barrett Co., The W. E. Providence, R. I.

### SOUTH CAROLINA

Mixson Seed Co., Inc., W. H.
Charleston, S. C.
Caughman Feed & Seed Co.
Columbia, S. C.
Kirkland Seed Co., B. B.
Columbia, S. C.
Shuler & Smooth Shuler & Smoak Orangeburg, S. C. (See Adv. on Page 29)

### SOUTH DAKOTA

Dakota Improved Seed Co. Mitchell, S. D. (See Adv. on Page 57)

### TENNESSEE

London Hardware Co.
Johnson City, Tenn.
Mayo, D. R.
Knoxville, Tenn.
Snapp & Sons, J. P.
Limestone, Tenn.
(See Adv. on Page 93)
Buchanan Seed Company. R. B.
Memphis, Tenn.
Russell-Heckle Seed Co.

Memphis, Tenn.
Russell-Heckle Seed Co.
Memphis, Tenn.
Dobson-Hicks Co.
Nashville. Tenn.

### TEXAS

Eastern Seed Co.
Corpus Christi, Texas
Stokes & Co., Francis C.
Corpus Christi, Texas
Hardie Seed Co., David
Dallas, Texas
Magnolia Seed Co.
Dallas, Texas
Nicholson Seed Co., Robert
Dallas, Texas
American Seed Co.
Fort Worth, Texas
Texas-Associated Seeds, Inc.
Harlingen, Texas
(See Adv. on Page 99)
Acme Seed Co.
Lubbock, Tex.
Satex Seed Co.
San Antonio, Tex. Eastern Seed Co. San Antonio, Tex.

### UTAH

Bailey & Sons Co.
Salt Lake City, Utah
Porter-Walton Seed Co.
Salt Lake City, Utah

### VIRGINIA

Digg & Beadles Seed Co., Inc. Richmond, Va. Wood & Sons, T. W. Richmond, Va.

### WASHINGTON

Christianson, Alf. Mt. Vernon, Wash. (See Adv. on Page 91)



# GARDEN SEEDS

FAMOUS FOR PURITY AND

WRITE FOR QUOTATIONS
BEFORE PLACING YOUR ORDER

### ROBERT BUIST COMPANY

SEEDSMEN SINCE 1828

PHILADELPHIA

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for

CRITICAL TRADE

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WHOLESALE GARDEN SEEDS—Continued

Skagit Seed Co.

Mount Vernon, Wash.

Zeb Seed Co.

Mt. Vernon, Wash.

Lilly Co., Chas. H.

Seattle, Wash.

(See Adv. on Page 79)

Seattle Seed Co.

Seattle, Wash.

Spokane Seed Co.

Spokane, Wash.

WISCONSIN

Olds Seed Co., L. L.
Madison, Wis.
Manitowoc Seed Co.
Manitowoc, Wis.
Hunkel Co., G. H.
Milwaukee, Wis.
Wisconsin Cabbage Seed Co. (Cabbage Seed)
Racine, Wis.

### **GROWERS GARDEN SEEDS**

ALABAMA

Pharr Co., King (Okra) Catherine, Ala.

CALIFORNIA

CALIFORNIA

Fish, Henry Berrien, Seedsmen (Beans)
Carpinteria, Calif.
(See Adv. on Page 71)

Pieters-Wheeler Seed Co.
Gilroy, Calif.
(See Adv. on Page 7)

Rohnert Co., Waldo
Gilroy, Calif.
(See Adv. on Page 101)

Lagomarsino & Sons, F.
Sacramento, Calif.
(See Adv. on Page 34)

Woodruff & Sons, F. H.
Sacramento, Calif.
(See Adv. on Front Cover)

Associated Seed Growers, Inc.

Associated Seed Growers, Inc.

Salinas, Calif.

(See Adv. on Page 99) Kellogg Seed Co. of California Salinas, Calif.

Bertrand Seed Co.

San Francisco, Calif. (See Adv. on Page 79)

Ferry-Morse Seed Co.

San Francisco, Calif. (See Adv. Below) Maffei Seed Co., L. D. San Francisco, Calif.

Sherwood Seed Co.

San Francisco, Calif.
(See Adv. on Page 47)
Braslan Seed Growers Co., Inc.
San Jose, Calif.
(See Adv. on Page 93)

Kimberlin Seed Co.

San Jose, Calif.

Haven Seed Co. (Tomato)

Santa Ana, Calif.

(See Adv. on Page 77)

R. A. Haven, Seedsman (Tomato)

Santa Ana, Calif.
(See Adv. on Page 47)
McCrea Seed Co.

Santa Barbara, Calif.

(See Adv. on Page 75)

Hedrick & Sweetland
Santa Paula, Calif.
(See Adv. on Page 79)

Standard Seed Farms Co. Stockton, Calif. (See Adv. on Page 100)



A view of our Trial Grounds near Salinas, California, where from 300 to 400 samples of lettuce are planted and noted three times each year.

### FERRY-MORSE SEED COMPANY

DETROIT, MICH.

SAN FRANCISCO, CALIF.

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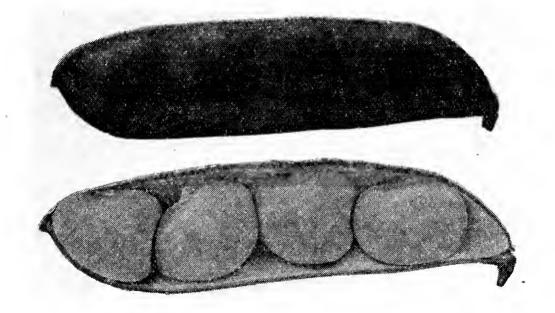


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# Haven Seed Company

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CALIFORNIA

### GROWERS GARDEN SEEDS-Continued

CANADA

Hogg & Lytle, Ltd.
Oshawa, Ont., Canada
Steele, Briggs Seed Co., Ltd.
Toronto, Canada
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COLORADO

Barteldes Seed Co. (Beans and Onion Sets Denver, Colo.

Grand Junction Seed Co. Grand Junction, Colo.

(See Adv. on Page 71) Associated Seed Growers, Inc.

Greeley, Colo.

(See Adv. on Page 99)

Balcom Seed Co. (Beans)

Greeley, Colo.

Burrell Seed Growers Co. Rocky Ford, Colo.

Rocky Ford, Colo.

Ebbert Seed Co.
Rocky Ford, Colo.
Garwood Seed Co., H. D.
Rocky Ford, Colo.

James, R. H.
Rocky Ford, Colo.

Robinson Seed Co., The J. C.
Rocky Ford, Colo.
(See Adv. on Page 99)

Woodruff & Sons, F. H.
Rocky Ford, Colo.
(See Adv. on Front Cover)

Woodside Seed Growers Co.
Rocky Ford, Colo.

CONNECTICUT

Woodruff & Sons, F. H.

Milford, Conn. (See Adv. on Front Cover)

(See Adv. on Front Co Associated Seed Growers, Inc. New Haven, Conn. (See Adv. on Page 99) Woodruff & Sons, S. D. Orange, Conn. Comstock, Ferre & Co. Wethersfield, Conn. (See Adv. on Page 91) Hart Seed Co., Chas. C. Wethersfield, Conn. (See Adv. on Page 45)

(See Adv. on Page 45)

FLORIDA

Taylor Seedsman, Inc., H. M. (Watermel Lloyd, Fla. Willie & Son, J. J. (Watermelon) Lloyd, Fla. Gilbert, D. H. (Watermelon) Monticello, Fla. (See Adv. on Page 71) Henderson Seed Farms (Watermelon) Monticello, Fla. Sattler, F. J. (Watermelon) Monticello, Fla. Taylor Seedsman, Inc., H. M. (Watermelon)

Monticello, Fla.

Woodruff & Sons, F. H.

Atlanta, Ga.

(See Adv. on Front Cover)
Richter & Sons, P. A. (Collard)
Cairo, Ga.

Steiner Branch Seed Co. (Watermelon)
Grovetown, Ga.
Beechwood Seed Farms (Okra)

Rome, Ga.
Fulwood, P. D.
Tifton, Ga.

(See Adv. on Page 23)

IDAHO

IDAHO
Filer Seed Co.
Blackfoot, Idaho
Crookham & Co.
Caldwell, Idaho
Hodge, G. D. (Lettuce Seed)
Moscow, Idaho
Moscow-Idaho Seed Co. (Peas and Beans)
Moscow, Idaho
Washburn-Wilson Seed Co.
(Peas and Beans)
Moscow. Idaho

. Moscow, Idaho (See Adv. on Page 31)

Associated Seed Growers, Inc.
St. Anthony, Idaho
(See Adv. on Page 99)
Woodruff & Sons, F. H.
St. Anthony, Idaho
(See Adv. on Front Cover)

ILLINOIS

Barnard Co., W. W.
Chicago, Ill.
Leonard Seed Co.
Chicago, Ill.
(See Adv. on Third Cover)
Rogers Bros. Seed Co. (Peas and Beans) Chicago, Ill.

(See Adv. on Rear Cover)

Vaughan's Seed Store Chicago, Ill.

Condon Bros., Seedsmen Rockford, Ill.

INDIANA

Crabbs Reynolds Taylor Co. Crawfordsville, Ind. Hall-Stingle Co. (Tomato)

Waterloo, Ind.

IOWA

Hoopes & Co., J. E.
Muscatine, Iowa
Sloux City Seed Co.
Sloux City, Iowa
(See Adv. on Pages 73 and 95)

Barteldes Seed Co. Lawrence, Kan.

MARYLAND

Blamberg Bros., Inc. Baltimore, Md. (See Adv. on Page 23)

**MASSACHUSETTS** 

Breck & Sons, Joseph

Boston, Mass. Emerson Co., Thos. W. Boston, Mass.

**MICHIGAN** 

Adrian Seed Growing Co. (Tomato Seed)

Adrian, Mich.

(See Adv. on Page 93)
Morse & Son, Guy (Radish)
Central Lake, Mich.
Ferry-Morse Seed Co.
Detroit, Mich.

(See Adv. on Page 76)

Brown & Son, Inc., A. J. (Peas and Beans)
Grand Rapids, Mich.
Brown Seed Co., Alfred J. (Peas and

Beans)

Grand Rapids, Mich. (See Adv. on Page 11)

Isbell Seed Co.
Jackson, Mich.
(See Adv. on Page 27)

MINNESOTA

Farmer Seed & Nursery Co.
Faribault, Minn.
(See Adv. on Page 115)
Northrup, King & Co.
Minneapolis. Minn.
(See Adv. on Page 5)

(See Adv. on Page 5)

MISSOURI

Corneli Seed Co.

St. Louis, Mo.
(See Adv. on Page 25)
United States Seed Co.
St. Louis, Mo.

**MONTANA** 

Woodruff & Sons, F. H.
Belfry, Mont.
(See Adv. on Front Cover)
Associated Seed Growers, Inc.
Bozeman, Mont.
(See Adv. on Page 99)



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We Specialize in all Varieties Seed Limas!

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CALIFORNIA GARDEN SEEDS
PEAS AND BEANS

SAN FRANCISCO

CALIFORNIA

### **GROWERS GARDEN SEEDS—Continued**

Gallatin Valley Seed Co. Bozeman, Mont.

Woodruff & Sons, F. H.

Great Falls, Mont.

(See Adv. on Front Cover) Associated Seed Growers, Inc. Hamilton, Mont. (See Adv. on Page 99)

NEBRASKA Western Seed & Irrigation Co. Fremont, Neb. Nebraska Seed Co. Omaha, Neb.

(See Adv. on Page 9)
Coy & Son, Chauncey P. (Vine)
Waterloo, Neb.
Robinson Seed Co., J. C. (Vine and Corn)
Waterloo, Neb.
(See Adv. on Page 99)

**NEW JERSEY** 

White Co., Joseph (Tomato and Pepper) Bridgeton, N. J.

(See Adv. on Page 91)

Hammell Seed Farms, Geo. Q. Cedarville, N. J. Pedrick & Sons, Geo. Pedricktown, N. J. Hurff, Edgar F.

Swedesboro, N. J. (See Adv. on Page 45)

NEW YORK

Woodruff & Sons, F. H.

Bellerose, N. Y.

(See Adv. on Front Cover)

Rice Seed Co., Jerome B.

Cambridge, N. Y.

(See Adv. on Page 45)

Harris Co., Joseph

Coldwater, N. Y.

Robson Seed Farms

Hall, N. Y.

Lupton & Son, J. M.

Mattituck, L. I.. N. Y.

Herbst Brothers

Herbst Brothers New York, N. Y. (See Adv. on Pages 73 and 131)

(See Adv. on Pages 73

Madsen & Co., Thos.
New York, N. Y.

Stumpp & Walter Co.
New York, N. Y.

Suhr Co., E.
New York, N. Y.

(See Adv. on Page 81)

Vaughan's Seed Store
New York, N. Y.

OHIO

Holmes Seed Co. Canton, Ohio
Schilder Bros. (Onion Seed and Sets)
Chillicothe. Ohio O. & M. Seed Co. Green Springs, Ohio.

(See Adv. on Page 115)

Quirk, John B.

North Madison. Ohio

Woodruff & Sons, F. H.

Toledo, Ohio (See Adv. on Front Cover)

OREGON Gill Bros. Seed Co. Portland, Ore. Hand Seed Co., Ir Inc., A. M. Portland, Ore.

**PENNSYLVANIA** 

Landreth Seed Co., D. Bristol, Pa. (See Adv. on Page 3)

Buist Co., Robert Philadelphia, Pa.

(See Adv. on Page 75)

Burpee Co., W. Atlee
Philadelphia, Pa.
(See Adv. on Page 103)

TENNESSEE

Snapp, J. P., & Sons Limestone, Tenn. (See Adv. on Page 93)

**TEXAS** 

Magnolia Seed Co.
Dallas, Texas
Nicholson Seed Co., Robert
Dallas, Texas
Woodruff & Sons, F. H.
Mercedes, Texas
(See Adv. on Front Cover)

VERMONT Hawkins, Budd D. Reading, Vt.

VIRGINIA

Wood & Sons, T. W. Richmond, Va.

WASHINGTON

Associated Seed Growers, Inc. Fairfield, Wash. (See Adv. on Page 99)

Aabling's Seed Farms, Inc. Mt. Vernon, Wash.

Christianson, Alf Mt. Vernon, Wash.
(See Adv. on Page 91)
Skagit Seed Co.
Mt. Vernon, Wash.

Mt. Vernon,

Zeb Seed Co.

Mt. Vernon, Wash.

Lilly Co., Chas. H.

Seattle, Wash.

(See Adv. on Page 79)

Northwest Seed Co.

Seattle, Wash.

Seattle Seed Co.

Seattle, Wash.

Seattle, Wash.

Seattle, Wash.

Wash.

Wash.

WISCONSIN

Rugowski Seed Co., J. K. Manitowoc, Wis. Hunkel Co., G. H. Milwaukee, Wis. Wisconsin Cabbage Seed Co. Racine, Wis.

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(See Adv. on Front Cover)
Woodruff & Sons, F. H.
Douglas, Wyoming
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Associated Seed Growers, Inc.
Powell, Wyoming
(See Adv. on Page 99) (See Adv. on Page 99)

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Fumero, Jose (Onion Seed)
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Prieto, Alberto Varela (Onion Seed) Teneriffe, Canary Islands

Manshu Nosan Shokai, Inc. Dairen, So. Manchuria, China

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(See Adv. on Page 97)

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Odense, Denmark

(See Adv. on Page 87) Ostergaards Froavl

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(See Adv. on Page 81)

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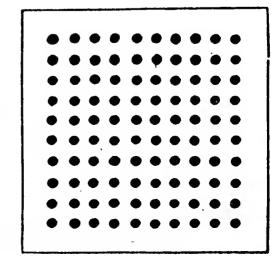
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(See Adv. on Page 107)
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Wiesbaden-Aukamm, Germany
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(See Adv. on Page 85)
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(See Adv. on Pages 73 and 131)
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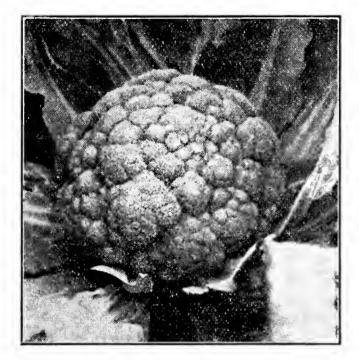
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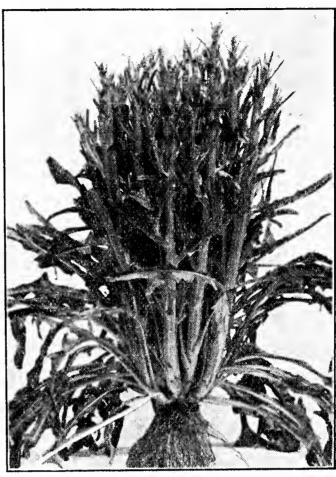
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# VEGETABLE PLANTING TABLE

						,			
	Seeds or		Distance	ce for plants to	stand		Time of planting	planting in open ground	
Kind of vegetable	quired for 100 ft.	One	Rows	apart	ř	Depth of			Ready for use
	of drill		Horse culti-	Hand cultivation	Flants apart in rows	pranting	South	North	aiter pianting
Asparagus, seedAsparagus, rootsBeans, dwarf	1 oz 60 to 80 1 pt.	5 lbs	30 to 36 in 3 to 5 ft 30 to 36 in	1 to 2 ft 12 to 24 in 18 to 24 in	3 in. 15 to 20 in		Autumn or early sp'ng Autumn or early sp'ng Feb to April (Ang. to	Early spring	2 years 1 year
	1/2 pt	/4		ft 18	3 to 4 ft			April to July	42 to 75 days 72 to 90 days
Brussels sprouts Cabbage, early	1/4 oz	2 oz	30 to 36 in	24 to 30 in	16 to 24 in			April to August May and June Mar.and Apr. (Start in	45 to 60 days 100 to 120 days
Cabbage, late Carrot Cauliflower Celery	1,4 oz	14 lb 2 lbs 1 oz 14 lb	30 to 40 in 30 to 36 in 30 to 36 in 3 to 6 ft	24 to 36 in 18 to 24 in 24 to 30 in 18 to 36 in	16 to 24 in 2 in 14 to 18 in 2 in			hotbed during Feb.) May and June April to June April to June	90 to 110 days 110 to 120 days 55 to 80 days 95 to 110 days
Collards	14 0Z 14 0Z 17 0Z 17 0Z 17 0Z 17 0Z	14 lb 6 qts 2 lbs	30 to 36 in 36 to 42 in Broadcast 4 to 6 ft	24 to 30 in 30 to 36 in 4 to 6 ft	14 to 18 in 4 to every 3 ft 4 every 3 ft	½ in. 1 in. water	May and June Feb. to April Early spring Feb. and Mar. [Sept.]	during Mar.or Apr.) Late spring May to July April to Sept	120 to 150 days 100 to 120 days 55 to 90 days 60 to 70 days 50 to 70 days
EndiveKale, or borecole	0z	2 lbs	30 in	18 in 18 to 24 in	2 in		Feb. to April	hotbed during Mar.)   April [July]1	125 to 140 days 100 days
Kohl-rabi Leek Lettuce Muskmelon Watermelon Mustard Okra Onion, seed	14 02 1/2 02 1/2 02 1/2 02 1 02 1 02 2 02 1 02 1 02	1 lb 3 lbs 2 lbs 1 lb 8 lbs 4 lbs5 lbs	30 to 36 in 30 to 36 in 30 in 6 to 8 ft 8 to 12 ft 30 to 36 in 4 to 5 ft 24 to 36 in	18 to 24 in 14 to 20 in 12 to 18 in 6 to 8 ft 8 to 12 ft 12 to 18 in 3 to 4 ft 12 to 18 in	6 in		gu,d	and April]  March to May.  March to Sept.  April to June.  May and June.  May and June.  May and June.  April to May. [Sept.]	55 to 60 days 50 to 70 days 120 to 150 days 70 to 90 days 85 to 150 days 100 to 130 days 60 to 90 days 90 to 140 days
Onion seed for sets Parsley Parsnip Peas Peper	1 lb	50 lbs 3 lbs 1 bu 2 oz	24 to 36 in 24 to 36 in 30 to 36 in 3 to 4 ft 30 to 36 in	12 to 18 in 12 to 18 in 18 to 24 in 30 to 36 in 18 to 24 in	½ in. 3 in. 2 in. 1 in.	7.2%% 7.1.2%% 1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1			100 days 90 days 65 to 90 days 130 days 45 to 75 days
Potatoes, Irish	5 lbs 3 lbs(or75 slips)	16 bu	30 to 36 in	24 to 36 in 3 to 5 ft	14 in14	4 in3 in	::	early plants in hotbed during March) March to June May and June	130 to 150 days 90 to 150 days 150 days

	Seeds or		Distant	Distance for plants to stand	stand		Time of algaring in one or	in onen mound	
Vind of monthly	roots re-	One	Rows	Rows apart	1	Depth of	Time of prairing	in open ground	Ready for use
ind or vegetable	quired for 100 ft. of drill	Acre	Horse culti-	Hand culti-	riants apart in rows	planting	South	North	after planting
Pumpkin Radish Rhubarb, seed Rhubarb, roots Ruta-baga Salsify Spinach Squash, summer Squash, winter Tomato	12 02.   4 1bs   10 2	1::::::::::::::::::::::::::::::::::::::	8 to 12 ft. 24 to 36 in. 36 in. 3 to 5 ft. 30 to 36 in. 30 to 36 in. 30 to 36 in. 7 to 10 ft. 7 to 10 ft. 3 to 5 ft.	8 to 12 ft 4 ever 12 to 18 in 12 to 18 in 1 in 30 to 36 in 6 in 3 ft 18 to 24 in 2 in 12 to 18 in 2 in 3 to 4 ft 4 ever 7 to 10 ft 4 ever 3 to 4 ft 3 by 4 18 to 24 in 2 in	4 every 6 ft  1 in  5 in  1 in  2 in  1 in  2 in  2 in  2 in  4 every 4 ft  2 in  2 in  2 in  4 every 6 ft  2 in	THE MEMORITAGE AND ADDRESS OF THE PROPERTY OF	in         April and May         May to July         75 to 90 days           in         Sept. to April         Anarch to Sept         20 to 75 days           to 1 in         Farly spring         3 years           to 3 in         Autumn or early sp'ng         1 year           to 1 in         Aug         90 days           in         Sept. to Feb         150 days           in         Spring         65 to 70 days           in         Berly spring         65 to 70 days           in         April to June         125 days           in         Aug         April and Aug           Aug         April and Aug         45 to 90 days	May to July  Early spring  Autumn or early sp'ng.  May and June  Early spring  Sept. or very e'ly spr'g  April to June  May to July  May to July	75 to 90 days 20 to 75 days 3 years 1 year 90 days 150 days 125 days 125 days 125 to 150 days

# Helpful Hints to Vegetable Gardeners

ECIDE early how much ground you will use and what you will plant.

Plow or spade before the ground freezes, if you can. A little fertilizer or manure will insure better crops.

Don't cover the seed too deep. It will germinate more quickly if only a little soil is on the seed. See full cultural directions on the packets.

Leave the garden alone until the plants come up. If you have sown bulk seeds, thin rows after plants are up an inch or two. Using seed-tape reduces thinning to a minLima beans should be planted with the eye down and covered one inch deep.

Sow radishes directly in the row with your

Order your seeds early so that you can

take advantage of the first signs of spring. When you water, do it thoroughly—don't

Plant early everything but beans, wrinkled peas, and vine crops.

If soil is dry, water may be put on. Let it run slowly and don't spare the water—

Don't think water will take the place of thorough cultivation-it won't.

You will have a better garden if you use the hoes more, and the hose less.

Kill them Weeds are garden robbers. when they are small.

For large head lettuce, thin out to at least six inches.

Plant enough to have some vegetables for home canning.

Buy only first-class, reputable materials, even if it means less of them.

Hoe often to loosen the soil and hold Get a good spray and use it.

You cannot do good work with poor tools. moisture around the roots of the plants.

Have a good hoe, rake, fork and spade.
A small hand cultivator will make you feel like a professional gardener.

soon pay for itself, too.

Dont try "watchful waiting" for bugs, worms and other vermin. Swat 'em or they

will spoil your plants.
Plant small, quick growers like lettuce, radishes, etc., between the rows of larger, In the case of early etc., between the rows to occupy the ground sorts such as spinach, start tomatoes, corn, after the former is harvested. slower maturing sorts.

Never cultivate or handle any kind of beans when the vines are wet. This is the easiest way to spread a serious disease and

Success against weeds means keeping them ruin the crop.

out, not taking them out after they get in. To ensure a succession of such plants as peas, beans, lettuce, radishes, beets, kohlrabi, etc., sow a fresh row every week or so.

### CHARACTERISTICS OF VEGETABLE SEEDS

The figures in the following table are intended to be approximate only, as variations occur in varieties and are also due to conditions of growth, harvest and storage.

Vegetable	Average Germination 1 Year Old Seed	Average Duration of	Average Number of Seeds per Ounce	Average Weight of Quart of Seed in Ounces	Amount Required for 100 Feet of Drill	Amount of Seed required Per Acre	Depth of Planting
Asparagus	90%	3	1,000	32	1 oz.	5 lbs.	1 in.
Beans, Dwarf	90%	3	100	30	1 lb.	60 lbs.	1 in.
Beans, Pole	90%	3	100	30	½ lb.	30 lbs.	1 in.
Beet, Garden	80%	4	1,750	10	1 oz.	6 lbs.	1 in.
Beet, Mangel	80%	4	1,200	10	1 oz.	5 lbs.	1 in.
Brussels Spro	uts85%	4	6,500	24	$\frac{1}{4}$ oz.	2 oz.	$\frac{1}{2}$ in.
Cabbage	85%	4	5,000	24	$\frac{1}{4}$ oz.	4 oz.	$\frac{1}{2}$ in.
Carrot	75%	3	14,000	12	$\frac{1}{2}$ oz.	2 lbs.	½ in.
Cauliflower	75%	4	14,000	24	$\frac{1}{4}$ oz.	1 oz.	½ in.
Celery	80%	3	100,000	16	$\frac{1}{4}$ oz.	4 oz.	½ in.
Collards	88%	3	4,500	24	$\frac{1}{4}$ oz.	4 oz.	$\frac{1}{2}$ in.
Corn, Sweet.	85%	3	125	23	1/4 lb.	12 lbs.	1 in.
Cucumber	85%	5	1,000	18	$\frac{1}{2}$ oz.	2 1bs.	1 in.
Eggplant	75%	4	5,000	18	$\frac{1}{8}$ oz.	4 oz.	$\frac{1}{2}$ in.
Endive	80%	5	13,500	12	1 oz.	2 lbs.	½ in.
Kale	85%	4	7,500	24	$\frac{1}{4}$ oz.	1 lb.	½ in.
Kohlrabi	85%	3	7,000	24	$\frac{1}{4}$ oz.	1 lb.	$\frac{1}{2}$ in.
Leek	80%	2	8,000	18	$\frac{1}{2}$ oz.	4 lbs.	$\frac{1}{2}$ in.
Lettuce	90%	6	16,000	14	$\frac{1}{2}$ oz.	3 lbs.	$\frac{1}{2}$ in.
Melon, Musk	85%	5	1,200	12	$\frac{1}{2}$ oz.	2 lbs.	1 in.
Melon, Water	85%	5	225	16	1 oz.	2 lbs.	1 in.
Mustard	85%	3	18,000	30	$\frac{1}{4}$ oz.	1 lb.	1/4 in.
Okra	85%	1	425	20	2 oz.	8 lbs.	1 in.
Onion	80%	2	12,500	16	1 oz.	4 lbs.	$\frac{1}{2}$ in.
Parsley	70%	1	17,500	12	$\frac{1}{4}$ oz.	3 lbs.	$\frac{1}{8}$ in.
Parsnip	75%	1	2,800	10	$\frac{1}{2}$ oz.	3 lbs.	$\frac{1}{2}$ in.
Peas	90%	3	50 to 150	30	1 lb.	60 lbs.	1 in.
Pepper	75%	2	4,000	16	$\frac{1}{8}$ oz.	2 oz.	$\frac{1}{2}$ in.
Pumpkin	90%	4	100	9	$\frac{1}{2}$ oz.	4 lbs.	1 in.
Radish	90%	4	5,000	24	1 oz.	10 lbs.	$\frac{1}{2}$ in.
Salsify	75%		4,500	12	1 oz.	8 lbs.	$\frac{1}{2}$ in.
Spinach	80%	3	3,000	14	1 oz.	8 lbs.	1 in.
Squash, Sumr	${\sf ner}\ldots 90\%$	4	. 300	20	$\frac{1}{2}$ oz.	4 lbs.	1 in.
Squash, Winte	er 90%	4	125	14	$\frac{1}{2}$ oz.	2 lbs.	1 in.
Tomato	85%	3	7,500	10	$\frac{1}{8}$ oz.	$1\frac{1}{2}$ oz.	½ in.
Turnip	90%	4	10,000	24	$\frac{1}{2}$ oz.	1 lb.	1/4 in.

Over 12,500,000 buyers of seeds, plants, bulbs, nursery stock, pets, poultry supplies and accessories for same are patrons of SEED WORLD readers.

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ADVERTISING IN SEED WORLD

### IMPORTS AND PRICES OF VEGETABLE SEEDS

Compiled from figures published by Department of Commerce.

			-Imports-	—Calenda	r Years-			Aver	age Pric	es	
Kind of	Import	1930	1931	1932	1933	1934*	Per	Per	Per	Per	Per
Seed	Duty Per lb.						lb.	lb.	1b.	, lb.	lb.
	Cents	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	1930	1931	1932	1933	1934*
Beet, gdn.	4	343,877	351,240	178,522	572,073	177,339	\$.176	\$.155	\$.129	\$.129	\$.161
Beet, mgl.	4	318,126	366,927	137,526	244,501	70,826	.111	.093	.082	.071	.086
Cabbage	12	341,897	250,180	172,452	173,517	72,996	.584	.499	. 491	.392	.426
Carrot	4	20,798	15,751	34,492	60,476	18,414	.572	. 382	.290	.332	.492
Califlwr	25	18,826	17,501	13,213	11,349	4,971	6.327	5.747	5.806	5.472	7.098
Kale:.	6	72,649	41,996	44,923	48,444	22,280	.177	.187	.158	.165	.183
Kohlrabi	8	15,249	19,359	12,008	15,096	5,211	.414	. 324	.297	.306	.414
Onion	15 .	203,620	190,011	230,362	160,180	10,829	1.487	.830	.583	.674	.534
Parsley	2	348,852	308,280	179,209	43,732	83,886	.109	. 066	.045	.083	.041
Parsnip	4	18,351	15,620	13,322	24,045	13,243	.140	.130	.105	.110	.133
Pepper	15	2,220	4,038	1,012	961	859	.918	.733	.727	.702	868
Radish	6	872,765	695,682	565,102	444,789	172,016	.172	.148	.133	.131	.160 -
Rutabaga.	5	177,578	169,672	92,943	288,427	48,222	.108	. 118	.108	.085	.091
Spinach	1	2,762,797	2,030,618	2,386,496	3,783,364	751,567	.092	.085	.077	.085	.094
Turnip	5	1,194,633	1,090,140	482,057	1,211,931	266,621	.123	.109	.096	.080	.108

<sup>\*</sup>Six months ended June 30, 1934. All prices are F. O. B. port of origin and not including duty.

### LAWN MIXTURES & INDIVIDUAL GRASSES



Rhododendrons, Azaleas, Kalmias, Huckleberries, Cranberries and all plants of the same Ericaceous Family will flourish only when the soil is of the proper chemical condition which this class of material demands.

Watch the change in your stock after treating the soil with RHO-DONO.

TRADE PRICE \$3.00 per 100 lbs. \$50.00 per Ton SEND FOR CIRCULAR

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Golf Mixtures, Pasture Mixtures, Foreign and Domestic Grasses, Fertilizers, etc.

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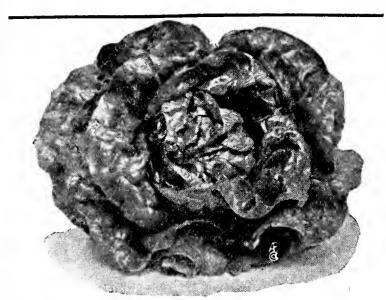
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## WHOLESALE GROWERS

Lettuce Carrot Celery

Beet Parsnip Onion Salsify Endive Parsley

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for the Wholesale Seed Trade—Conscientious Personal Attention.

ADRIAN SEED GROWING CO. Adrian, Mich. U. S. A.

### Use the TRADE MARK SECTION

starting page 50—for the leading Trade Marks and Brands used by the Seedsmen and Manufacturers of Allied Lines.

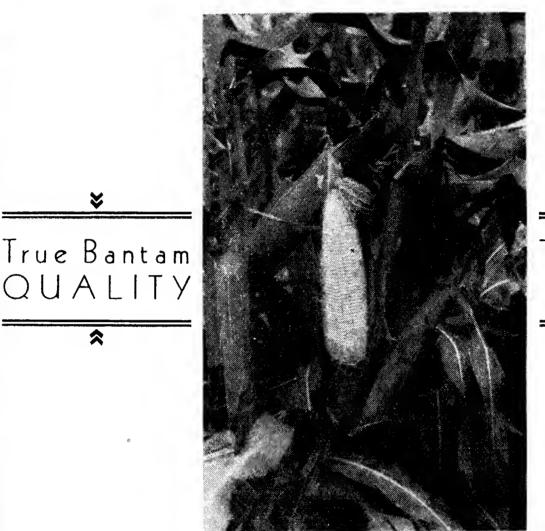
### 1935 ALL-AMERICA WINNERS

FLOWERS .							
Variety	Name	Award	Entered for Trial by				
Cosmos	Klondyke Hybrid Orange Flare	Grand Champion Gold Medal	Bodger Seeds, Ltd., El Monte, Calif.				
Nasturtium	Scarlet Gleam	Gold Medal	Bodger Seeds, Ltd., El Monte, Calif.				
Marigold	Yellow Supreme	Gold Medal	Livingston Seed Co., Columbus, Ohio				
Calendula	Orange Shaggy	Gold Medal	Waller-Franklin Seed Co., Guadalupe, Calif.				
Zinnia	Fantasy Mixture-	Award of Merit	Bodger Seeds, Ltd., El Monte, Calif.				
Petunia	Martha Washington	Award of Merit	Waller-Franklin Seed Co., Guadalupe, Calif.				
Nasturtium	Bodger's Glorious Gleam Hybrids	Award of Merit	Bodger Seeds, Ltd., El Monte, Calif.				
Phlox	Gigantea Art Shades	Award of Merit	Waller-Franklin Seed Co., Guadalupe, Calif.				
Dianthus	Lacinatus Splendens	Special Mention	<ul><li>Sodger Seeds, Ltd., El Monte, Calif.</li><li>F. C. Heineman, Erfurt, Germany.</li></ul>				
Verbena •	Nana Erecta Violet Bouquet	Special Mention	Waller-Franklin Seed Co., Guadalupe, Calif.				
Celosia	Pyramidalis Flame of Fire	Special Mention	T. Sakata & Co., Yokohama, Japan.				
Anchusa	Annual Blue Bird	Special Mention	Watkins & Simpson, London, England.				
African Marigold	Golden Beauty, Yellow Beauty, Primrose	Special Mention	Hurst & Son, London, England.				
Antirrhinum	Queen Rust Proof	Certificate of Honor	F. Lagomarsino & Sons, Sacramento, Calif. Waller-Franklin Seed Co., Guadalupe, Calif. Ferry-Morse Seed Co., San Francisco, Calif. Bodger Seeds, Ltd., El Monte, Calif. Wm. Macdonald Seed Co., Santa Maria, Calif.				
	\	<b>EGETABLES</b>					
Mustard	Southern Giant Curled Longstanding	Gold Medal	Abraham Sluis, Ltd., Enkhuizen, Holland.				
Tomato	Asgrow Scarlet Dawn	Gold Medal	Associated Seed Growers, Inc., New Haven, Conn.				
Cucumber	Straight Eight	Gold Medal	Ferry-Morse Seed Co., San Francisco, Calif.				
Cucumber	Colorado	Award of Merit	J. C. Robinson Seed Co., Waterloo, Nebr.				
Cantaloupe	*Sunkist	Award of Merit	J. C. Robinson Seed Co., Waterloo, Nebr.				
Tomato	Burpee's Globe	Award of Merit	W. Atlee Burpee Co., Philadelphia, Pa.				
Spinach	Viking	Award of Merit	Sluis en Groot, Enkhuizen, Holland.				
Sweet Corn Lettuce	Hybrid Bantam Longstanding White Boston	Award of Merit Special Mention	Sioux City Seed Co., Sioux City, Ia. Francis C. Stokes & Co., Inc., Philadelphia, Pa.				
Cabbage	Just Right	Special Mention	Sluis Brothers, Ltd., Enkhuizen, Holland.				
Pepper	Asgrow King	Special Mention	Associated Seed Growers, Inc., New Haven, Conn.				
Radish	White Pearl	Special Mention	Sluis Brothers, Ltd., Enkhuizen, Holland.				
* "Sunkist" Canta	aloupe has been renamed "	Imperial"	(Continued on page 96) .				

Reference Section Index-Page 4

### SOO-BRED BANTAM

An All American Hybrid Sweet Corn



True Evergreen
Y I E L D

AWARD OF MERIT 1935 ALL AMERICAN SEED TRIALS

### FOR CANNERS

Production cost as low as the biggest Evergreens. Quality you'll be glad to place your labels on.

### FOR MARKET GARDENERS

16 rowed ears of real size to attract attention.

Tenderness and flavor that insure enthusiastic satisfaction.

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An item sure to get a dependable volume of repeat orders. Certain to make friends for those who introduce it.

1934 crop now gone. Contracts for 1935 crop should be placed early.

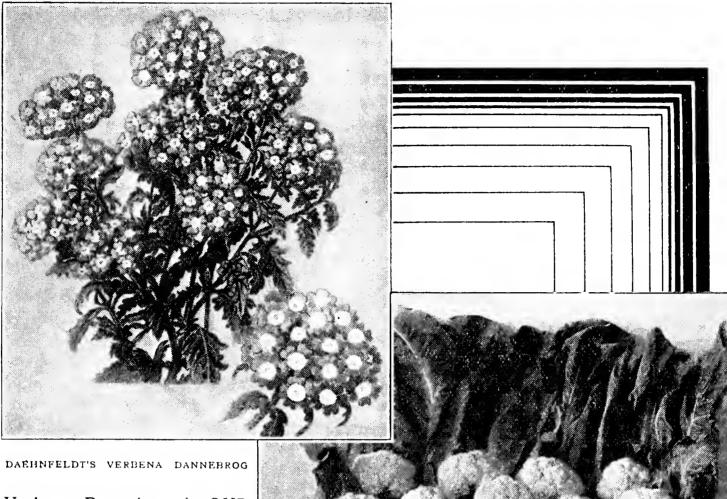
# SIOUX CITY SEED COMPANY SIOUX CITY IOWA

SPECIALIZING IN HYBRID SWEET AND FIELD CORNS

### 1934 ALL-AMERICA WINNERS (Continued)

### **FLOWERS**

Calendula Chrysantha or Sunshine Gold Medal Petunia Pink Gern Gold Medal Pladdetphia, p.a., and Bodger Seeds, Ltd., El Monte, Calif. Waller-Franklin Seed Co., Guadalupe, Calif. Waller-Franklin Seed Co., Guadalupe, Calif. Watkins & Simpson, Ltd., London, England. London, Lon	Variety	Name	Award	Entered for Trial by
Petunia         Pink Gem         Gold Medal         Wallor-Frenklin Seed Co., Guadalupe, Calif.           Larkspur         Rosemond         Gold Medal         Bodger Seeds, Ltd., El Monte, Calif.           Linaria         Fairy Bouquet         Gold Medal         Wakins & Simpson, Ltd., London, England.           Verbena         Dannebrog         Award of Merit         London, England.           Aster         Los Angeles         Award of Merit         Loger Seeds, Ltd., El Monte, Calif.           Canterbury Bell         Liberty Bell         Award of Merit         Waller-Franklin Seed Co., Guadalupe, Calif.           Petunia         Maximum All-Double Fringed         Award of Merit         Waller-Franklin Seed Co., Guadalupe, Calif.           Hunnemania         Sunlite         Award of Merit         Ferry-Morse Seed Co., Detroit, Mich. T. Sakata & Co., Yokohama, Japan.           Hunnemania         Dwarf         Award of Merit         Huntin Seed Co., Guadalupe, Calif.           Marigold         Dwarf         Award of Merit         Hurst & Sons, London, England.           Larkspur         Blue Bell         Special Mention         Special Mention           Chrysanthemun         Eldorado         Special Mention         Special Mention           Chrysanthemun         Eldorado         Special Mention         Special Mention <t< td=""><td>Calendula</td><td>Chrysantha or Sunshine</td><td>Gold Medal</td><td>Philadelphia, Pa., and Bodger Seeds, Ltd.,</td></t<>	Calendula	Chrysantha or Sunshine	Gold Medal	Philadelphia, Pa., and Bodger Seeds, Ltd.,
Linaria Fairy Bouquet Gold Medal Warkins & Simpson, Ltd., London, England.  Verbena Dannebrog Award of Merit London, England.  Aster Los Angeles Award of Merit Waller-Franklin Seed Co., Guadalupe, Calif.  Petunia Maximum All-Double Fringed Petunia Sunfite Award of Merit Monarch Strain Wonarch Strain Wonarch Strain Werbena Spectrum Red Special Mention Silvery Rose Special Mention Schopes Seed Special Mention Schopes Seed Special Mention Petunia Bodger Seeds, Ltd., El Monte, Calif. Hurst & Sons, London, England.  Bayler-Franklin Seed Co., Guadalupe, Calif. Hurst & Sons, London, England.  Bodger Seeds, Ltd., El Monte, Calif. Hurst & Sons, London, England.  Bodger Seeds, Ltd., El Monte, Calif. Hurst & Sons, London, England.  Bodger Seeds, Ltd., El Monte, Calif. Hurst & Sons, London, England.  Bodger Seeds, Ltd., El Monte, Calif. Hurst & Sons, London, England.  Bodger Seeds, Ltd., El Monte, Calif. Hurst & Sons, London, England.  Bodger Seeds, Ltd., El Monte, Calif. Hurst & Sons, London, England.  Bodger Seeds, Ltd., El Monte, Calif. Hurst & Sons, London, England.  Bodger Seeds, Ltd., El Monte, Calif. Hurst & Sons, London, England.  Bodger Seeds, Ltd., El Monte, Calif. Hurst & Sons, London, England.  Bodger Seeds, Ltd., El Monte, Calif. Hurst & Sons, London, England.  W. Atlee Burpee Co., Philadelphia, Pa.  VEGETABLES  Radish Glowing Ball Gold Medal Petrophia Philadelphia, Pa.  VEGETABLES  Radish Glowing Ball Gold Medal Petrophia Philadelphia, Pa.  VEGETABLES  Radish Glowing Ball Gold Medal Petrophia Philadelphia, Pa.  VEGETABLES  Radish Glowing Ball Gold Medal Petrophia Philadelphia, Pa.  VEGETABLES  Radish Glowing Ball Gold Medal Petrophia Philadelphia, Pa.  VEGETABLES  Radish Glowing Ball Gold Medal Petrophia Philadelphia, Pa.  VEGETABLES  Radish Glowing Ball Gold Medal Petrophia Philadelphia, Pa.  VEGETABLES  Radish Glowing Ball Gold Medal Petrophia Philadelphia, Pa.  VEGETABLES  Radish Glowing Ball Gold Medal Petrophia Philadelphia, Pa.  Vergetable Petrophia Philadelphia, Pa.  Vergetable Petrophia Philadelphia P	Petunia	Pink Gem	Gold Medal	Waller-Franklin Seed Co.,
Linaria         Fairy Bouquet         Gold Medal         Warkins & Simpson, Ltd., London, England.           Verbena         Dannebrog         Award of Merit         L. Daehnfeldt & Theodor Jensen, Odense, Denmark.           Aster         Los Angeles         Award of Merit         & Bodger Seeds, Ltd., El Monte, Calif.           Petunia         Maximum All-Double Fringed         Award of Merit Fringed         Waller-Franklin Seed Co., Guadalupe, Calif.           Hunnemania         Sunlite         Award of Merit Monarch Strain         Bodger Seeds, Ltd., El Monte, Calif.           Hunnemania         Sunlite         Award of Merit Monarch Strain         Bodger Seeds, Ltd., El Monte, Calif.           Larkspur         Blue Bell         Special Mention         Bodger Seeds, Ltd., El Monte, Calif.           Verbena         Spectrum Red         Special Mention         Waller-Franklin Seed Co., Guadalupe, Calif.           Aster         Silvery Rose         Special Mention         Waller-Franklin Seed Co., Guadalupe, Calif.           Chrysanthemum         Eldorado         Special Mention         Waller-Franklin Seed Co., Guadalupe, Calif.           Scabiosa         Giant Hybrids Mixed         Special Mention         W. Atlee Burpee Co., Philadelphia, Pa.           VEGETABLES           Radish         Glowing Ball         Gold Medal         Zwaan & Van der Molen,	Larkspur	Rosemond	Gold Medal	Bodger Seeds, Ltd., El Monte, Calif.
Aster Los Angeles Award of Merit Canterbury Bell Liberty Bell Award of Merit Fringed Peunia Maximum All-Double Fringed Peunia Sunlite Award of Merit Monarch Strain Monarch Strain Spectrum Red Spectrum	_	Fairy Bouquet	Gold Medal	
Canterbury Bell         Liberty Bell         Award of Merit Fringed         Waller-Franklin Seed Co., Guadalupe, Calif.           Petunia         Maximum All-Double Fringed         Award of Merit Award of Merit Fringed         Ferry-Morse Seed Co., Detroit, Mich. T. Sakata & Co., Yokohama, Japan.           Hunnemania         Sunlite         Award of Merit Monarch Strain         Bodger Seeds, Ltd., El Monte, Calif. Bodger Seeds, Ltd., El Monte, Calif. Hurst & Sons, London, England.           Larkspur         Blue Bell         Special Mention         Bedger Seeds, Ltd., El Monte, Calif. Hurst & Sons, London, England.           Verbena         Spectrum Red         Special Mention         Bodger Seeds, Ltd., El Monte, Calif. Hurst & Sons, London, England.           Aster         Silvery Rose         Special Mention         Bodger Seeds, Ltd., El Monte, Calif. Bodger Seeds, Ltd., El Monte, Calif. Hurst & Sons, London, England.           Chrysanthemum         Eldorado         Special Mention         W. Atlee Burpee Co., Philadelphia, Pa.           VEGETABLES           Radish         Glowing Ball         Gold Medal         Zwaan & Van der Molen, Voorburg, Holland.           Beet         Asgrow Wonder         Gold Medal         Zwaan & Van der Molen, Voorburg, Holland.           Beet         Perfected Detroit         Award of Merit         J. M. Lupton & Son, Mattituck, L. I., New York.           Cabbage         Penn State Ballhea	Verbena	Dannebrog	Award of Merit	
Guadalupe, Calif. Petunia Maximum All-Double Fringed Hunnemania Sunlite Award of Merit Monarch Strain  Hunnemania Sunlite Award of Merit Monarch Strain  Larkspur Blue Bell Special Mention Verbena Spectrum Red Special Mention Verbena Spectrum Red Special Mention  Special Mention  Eldorado Special Mention  Scabiosa Giant Hybrids Mixed Special Mention  VEGETABLES  Radish Glowing Ball Gold Medal Seeds, Ltd., El Monte, Calif. Hurst & Sons, London, England.  We Attee Burpee Co., Philadelphia, Pa.  VEGETABLES  Radish Glowing Ball Gold Medal Seeds, Ltd., El Monte, Calif. Hurst & Sons, London, England.  We Attee Burpee Co., Philadelphia, Pa.  VEGETABLES  Radish Glowing Ball Gold Medal Seed Gowers, Inc., New Haven, Conn.  Carrot Morse's Bunching Gold Medal Ferry-Morse Seed Co., San Francisco, Calif.  Beet Perfected Detroit Award of Merit J. M. Lupton & Son, Mattituck, L. I., New York.  Cabbage Penn State Ballhead Award of Merit The Barteldes Seed Co., Paris, France.  Cucumber The Barteldes Award of Merit The Barteldes Seed Co., San France, Cansel Seed Growers, Inc., New Haven, Conn.	Aster	Los Angeles	Award of Merit	Bodger Seeds, Ltd., El Monte, Calif.
Hunnemania Sunlite Award of Merit Monarch Strain Sunlite Award of Merit Monarch Strain Larkspur Blue Bell Special Mention Bodger Seeds, Ltd., El Monte, Calif. Hurst & Sons, London, England. Larkspur Blue Bell Special Mention Bodger Seeds, Ltd., El Monte, Calif. Hurst & Sons, London, England. Waller-Franklin Seed Co., Guadalupe, Calif. Hurst & Sons, London, England. Waller-Franklin Seed Co., Guadalupe, Calif. Aster Silvery Rose Special Mention Bodger Seeds, Ltd., El Monte, Calif. Chrysanthemum Eldorado Special Mention Bodger Seeds, Ltd., El Monte, Calif. Hurst & Sons, London, England. Waller-Franklin Seed Co., Guadalupe, Calif. Hurst & Sons, London, England. Waller-Franklin Seed Co., Guadalupe, Calif. Hurst & Sons, London, England. Waller-Franklin Seed Co., Guadalupe, Calif. Hurst & Sons, London, England. Waller-Franklin Seed Co., Philadelphia, Pa.  **VEGETABLES**  Radish Glowing Ball Gold Medal Zwaan & Van der Molen, Voorburg, Holland.  Beet Asgrow Wonder Gold Medal Ferry-Morse Seed Growers, Inc., New Haven, Conn.  Carrot Morse's Bunching Gold Medal Ferry-Morse Seed Co., San Francisco, Calif.  Beet Perfected Detroit Award of Merit J. M. Lupton & Son, Mattituck, L. I., New York.  Cabbage Penn State Ballhead Award of Merit J. M. Lupton & Son, Mattituck, L. I., New York.  Endive Batavian Full Heart Award of Merit Vilmorin, Andrieux & Co., Paris, France.  Cucumber The Barteldes Award of Merit Zwaan & Van der Molen, Voorburg, Holland.  Beet Good for All Special Mention Ferry-Morse Seed Co., San Francisco, Calif.  Beet Little Marvel Special Mention Northrup, King & Co., Minneapolis, Minn.  Sweet Corn Kingscross Bantam Special Mention Northrup, King & Co., Minneapolis, Minn.  New Haven, Conn.	Canterbury Bell	Liberty Bell	Award of Merit	
Marigold         Dwarf Monarch Strain         Award of Merit Monarch Strain         { Bodger Seeds, Ltd., El Monte, Calif. Hurst & Sons, London, England.           Larkspur         Blue Bell         Special Mention         Bodger Seeds, Ltd., El Monte, Calif.           Verbena         Spectrum Red         Special Mention         Waller-Franklin Seed Co., Guadalupe, Calif.           Aster         Silvery Rose         Special Mention         Bodger Seeds, Ltd., El Monte, Calif.           Chrysanthemum         Eldorado         Special Mention         Waller-Franklin Seed Co., Guadalupe, Calif.           Chrysanthemum         Eldorado         Special Mention         Waller-Franklin Seed Co., Guadalupe, Calif.           Scabiosa         Giant Hybrids Mixed         Special Mention         W. Atlee Burpee Co., Philadelphia, Pa.           VEGETABLES           Radish         Glowing Ball         Gold Medal         Zwaan & Van der Molen, Voorburg, Holland.           Beet         Asgrow Wonder         Gold Medal         Ferry-Morse Seed Co., San Francisco, Calif.           Beet         Perfected Detroit         Award of Merit         J. M. Lupton & Son, Mattituck, L. I., New York.           Cabbage         Penn State Ballhead         Award of Merit         J. M. Lupton & Son, Mattituck, L. I., New York.           Endive         Batavian Full Heart         Award of Merit <td>Petunia</td> <td>_</td> <td>Award of Merit</td> <td></td>	Petunia	_	Award of Merit	
Monarch Strain Larkspur Blue Bell Special Mention Verbena Spectrum Red Special Mention Special	Hunnemania	Sunlite	Award of Merit	Bodger Seeds, Ltd., El Monte, Calif.
Verbena         Spectrum Red         Special Mention Guadalupe, Calif.         Waller-Franklin Seed Co., Guadalupe, Calif.           Aster         Silvery Rose         Special Mention         Bodger Seeds, Ltd., El Monte, Calif. Hurst & Sons, London, England.           Chrysanthemum         Eldorado         Special Mention         Bodger Seeds, Ltd., El Monte, Calif. Hurst & Sons, London, England.           Scabiosa         Giant Hybrids Mixed         Special Mention         W. Atlee Burpee Co., Philadelphia, Pa.           VEGETABLES           Radish         Glowing Ball         Gold Medal         Zwaan & Van der Molen, Voorburg, Holland.           Beet         Asgrow Wonder         Gold Medal         Associated Seed Growers, Inc., New Haven, Conn.           Carrot         Morse's Bunching         Gold Medal         Ferry-Morse Seed Co., San Francisco, Calif.           Beet         Perfected Detroit         Award of Merit         J. M. Lupton & Son, Matrituck, L. I., New York.           Cabbage         Penn State Ballhead         Award of Merit         J. M. Lupton & Son, Matrituck, L. I., New York.           Endive         Batavian Full Heart         Award of Merit         Vilmorin, Andrieux & Co., Paris, France.           Cucumber         The Barteldes         Award of Merit         Zwaan & Van der Molen, Voorburg, Holland.           Beet         Good for All	Marigold		Award of Merit	
Aster Silvery Rose Special Mention Bodger Seeds, Ltd., El Monte, Calif. Chrysanthemum Eldorado Special Mention (Hurst & Sons, London, England.)  Scabiosa Giant Hybrids Mixed Special Mention (W. Atlee Burpee Co., Philadelphia, Pa.  **VEGETABLES**  Radish Glowing Ball Gold Medal Zwaan & Van der Molen, Voorburg, Holland.  Beet Asgrow Wonder Gold Medal Associated Seed Growers, Inc., New Haven, Conn.  Carrot Morse's Bunching Gold Medal Ferry-Morse Seed Co., San Francisco, Calif.  Beet Perfected Detroit Award of Merit J. M. Lupton & Son, Mattituck, L. I., New York.  Cabbage Penn State Ballhead Award of Merit J. M. Lupton & Son, Mattituck, L. I., New York.  Endive Batavian Full Heart Award of Merit Vilmorin, Andrieux & Co., Paris, France.  Cucumber The Barteldes Award of Merit The Barteldes Seed Co., Lawrence, Kansas.  Parsley Peerless Award of Merit The Barteldes Co., San Francisco, Calif.  Beet Good for All Special Mention Ferry-Morse Seed Co., San Francisco, Calif.  Special Mention Ferry-Morse Seed Co., San Francisco, Calif.  The Barteldes Seed Co., San Francisco, Calif.  The Barteldes Seed Co., San Francisco, Calif.  The Barteldes Seed Co., San Francisco, Calif.  Sweet Corn Kingscross Bantam Special Mention Northrup, King & Co., Minneapolis, Minn.  Sweet Corn Stowell's Evergreen Special Mention Northrup, King & Co., Minneapolis, Minn.  New Haven, Conn.	Larkspur	Blue Bell	Special Mention	Bodger Seeds, Ltd., El Monte, Calif.
Chrysanthemum       Eldorado       Special Mention       { Bodger Seeds, Ltd., El Monte, Calif. Hurst & Sons, London, England.}         Scabiosa       Giant Hybrids Mixed       Special Mention       W. Atlee Burpee Co., Philadelphia, Pa.         VEGETABLES         Radish       Glowing Ball       Gold Medal       Zwaan & Van der Molen, Voorburg, Holland.         Beet       Asgrow Wonder       Gold Medal       Associated Seed Growers, Inc., New Haven, Conn.         Carrot       Morse's Bunching       Gold Medal       Ferry-Morse Seed Co., San Francisco, Calif.         Beet       Perfected Detroit       Award of Merit       J. M. Lupton & Son, Mattituck, L. I., New York.         Cabbage       Penn State Ballhead       Award of Merit       Vilmorin, Andrieux & Co., Paris, France.         Cucumber       The Barteldes       Award of Merit       Vilmorin, Andrieux & Co., Paris, France.         Cucumber       The Barteldes       Award of Merit       Zwaan & Van der Molen, Voorburg, Holland.         Beet       Good for All       Special Mention       Ferry-Morse Seed Co., San Francisco, Calif.         Beet       Little Marvel       Special Mention       Northrup, King & Co., Minneapolis, Minn.         Sweet Corn       Kingscross Bantam        Special Mention       Northrup, King & Co., Minneapolis, Minn.         Sweet Corn	Verbena	Spectrum Red	Special Mention	
Scabiosa Giant Hybrids Mixed Special Mention  VEGETABLES  Radish Glowing Ball Gold Medal Sold Medal	Aster	Silvery Rose	Special Mention	Bodger Seeds, Ltd., El Monte, Calif.
Philadelphia, Pa.	Chrysanthemum	Eldorado	Special Mention	
Radish Glowing Ball Gold Medal Zwaan & Van der Molen, Voorburg, Holland.  Beet Asgrow Wonder Gold Medal Associated Seed Growers, Inc., New Haven, Conn.  Carrot Morse's Bunching Gold Medal Ferry-Morse Seed Co., San Francisco, Calif.  Beet Perfected Detroit Award of Merit J. M. Lupton & Son, Mattituck, L. I., New York.  Cabbage Penn State Ballhead Award of Merit J. M. Lupton & Son, Mattituck, L. I., New York.  Endive Batavian Full Heart Award of Merit Vilmorin, Andrieux & Co., Paris, France.  Cucumber The Barteldes Award of Merit The Barteldes Seed Co., Lawrence, Kansas.  Parsley Peerless Award of Merit Zwaan & Van der Molen, Voorburg, Holland.  Beet Good for All Special Mention Ferry-Morse Seed Co., San Francisco, Calif.  Beet Little Marvel Special Mention Zwaan & Van der Molen, Voorburg, Holland.  Sweet Corn Kingscross Bantam Special Mention Northrup, King & Co., Minneapolis, Minn.  Sweet Corn Stowell's Evergreen Special Mention Associated Seed Growers, Inc., New Haven, Conn.	Scabiosa	Giant Hybrids Mixed	Special Mention	
Beet Asgrow Wonder Gold Medal Associated Seed Growers, Inc., New Haven, Conn.  Carrot Morse's Bunching Gold Medal Ferry-Morse Seed Co., San Francisco, Calif.  Beet Perfected Detroit Award of Merit J. M. Lupton & Son, Mattituck, L. I., New York.  Cabbage Penn State Ballhead Award of Merit J. M. Lupton & Son, Mattituck, L. I., New York.  Endive Batavian Full Heart Award of Merit Vilmorin, Andrieux & Co., Paris, France.  Cucumber The Barteldes Award of Merit The Barteldes Seed Co., Lawrence, Kansas.  Parsley Peerless Award of Merit Zwaan & Van der Molen, Voorburg, Holland.  Beet Good for All Special Mention Ferry-Morse Seed Co., San Francisco, Calif.  Beet Little Marvel Special Mention Zwaan & Van der Molen, Voorburg, Holland.  Sweet Corn Kingscross Bantam Special Mention Northrup, King & Co., Minneapolis, Minn.  Sweet Corn Stowell's Evergreen Appeiral Mention Northrup, King & Co., Minneapolis, Minn.  Sweet Corn Stowell's Evergreen Special Mention New Haven, Conn.		V.	EGETABLES	
New Haven, Conn.  Carrot Morse's Bunching Gold Medal Ferry-Morse Seed Co., San Francisco, Calif.  Beet Perfected Detroit Award of Merit J. M. Lupton & Son, Mattituck, L. I., New York.  Cabbage Penn State Ballhead Award of Merit J. M. Lupton & Son, Mattituck, L. I., New York.  Endive Batavian Full Heart Award of Merit Vilmorin, Andrieux & Co., Paris, France.  Cucumber The Barteldes Award of Merit The Barteldes Seed Co., Lawrence, Kansas.  Parsley Peerless Award of Merit Zwaan & Van der Molen, Voorburg, Holland.  Beet Good for All Special Mention Ferry-Morse Seed Co., San Francisco, Calif.  Beet Little Marvel Special Mention Zwaan & Van der Molen, Voorburg, Holland.  Sweet Corn Kingscross Bantam Special Mention Northrup, King & Co., Minneapolis, Minn.  Sweet Corn Stowell's Evergreen Special Mention Associated Seed Growers, Inc., New Haven, Conn.	Radish	Glowing Ball	Gold Medal	
San Francisco, Calif.  Beet Perfected Detroit Award of Merit J. M. Lupton & Son, Mattituck, L. I., New York.  Cabbage Penn State Ballhead Award of Merit J. M. Lupton & Son, Mattituck, L. I., New York.  Endive Batavian Full Heart Award of Merit Vilmorin, Andrieux & Co., Paris, France.  Cucumber The Barteldes Award of Merit The Barteldes Seed Co., Lawrence, Kansas.  Parsley Peerless Award of Merit Zwaan & Van der Molen, Voorburg, Holland.  Beet Good for All Special Mention Ferry-Morse Seed Co., San Francisco, Calif.  Beet Little Marvel Special Mention Zwaan & Van der Molen, Voorburg, Holland.  Sweet Corn Kingscross Bantam Special Mention Northrup, King & Co., Minneapolis, Minn.  Sweet Corn Stowell's Evergreen Special Mention Associated Seed Growers, Inc., New Haven, Conn.	Beet	Asgrow Wonder	Gold Medal	
Mattituck, L. I., New York.  Cabbage Penn State Ballhead Award of Merit J. M. Lupton & Son, Mattituck, L. I., New York.  Endive Batavian Full Heart Award of Merit Vilmorin, Andrieux & Co., Paris, France.  Cucumber The Barteldes Award of Merit The Barteldes Seed Co., Lawrence, Kansas.  Parsley Peerless Award of Merit Zwaan & Van der Molen, Voorburg, Holland.  Beet Good for All Special Mention Ferry-Morse Seed Co., San Francisco, Calif.  Beet Little Marvel Special Mention Zwaan & Van der Molen, Voorburg, Holland.  Sweet Corn Kingscross Bantam Special Mention Northrup, King & Co., Minneapolis, Minn.  Sweet Corn Stowell's Evergreen Aybrid Special Mention Associated Seed Growers, Inc., New Haven, Conn.	Carrot	Morse's Bunching	Gold Medal	Ferry-Morse Seed Co.,
Endive Batavian Full Heart Award of Merit Vilmorin, Andrieux & Co., Paris, France.  Cucumber The Barteldes Award of Merit The Barteldes Seed Co., Lawrence, Kansas.  Parsley Peerless Award of Merit Zwaan & Van der Molen, Voorburg, Holland.  Beet Good for All Special Mention Ferry-Morse Seed Co., San Francisco, Calif.  Beet Little Marvel Special Mention Zwaan & Van der Molen, Voorburg, Holland.  Sweet Corn Kingscross Bantam Special Mention Northrup, King & Co., Minneapolis, Minn.  Sweet Corn Stowell's Evergreen Hybrid Special Mention Associated Seed Growers, Inc., New Haven, Conn.	Beet	D ( 1 D )		San Francisco, Calif.
Cucumber The Barteldes Award of Merit The Barteldes Seed Co., Lawrence, Kansas.  Parsley Peerless Award of Merit Zwaan & Van der Molen, Voorburg, Holland.  Beet Good for All Special Mention Ferry-Morse Seed Co., San Francisco, Calif.  Beet Little Marvel Special Mention Zwaan & Van der Molen, Voorburg, Holland.  Sweet Corn Kingscross Bantam Special Mention Northrup, King & Co., Minneapolis, Minn.  Sweet Corn Stowell's Evergreen Hybrid Special Mention Associated Seed Growers, Inc., New Haven, Conn.		Perfected Detroit	Award of Merit	J. M. Lupton & Son,
Parsley Peerless Award of Merit Zwaan & Van der Molen, Voorburg, Holland.  Beet Good for All Special Mention Ferry-Morse Seed Co., San Francisco, Calif.  Beet Little Marvel Special Mention Zwaan & Van der Molen, Voorburg, Holland.  Sweet Corn Kingscross Bantam Special Mention Northrup, King & Co., Minneapolis, Minn.  Sweet Corn Stowell's Evergreen Hybrid Special Mention Associated Seed Growers, Inc., New Haven, Conn.	Cabbage			<ul><li>J. M. Lupton &amp; Son,</li><li>Mattituck, L. I., New York.</li><li>J. M. Lupton &amp; Son,</li></ul>
Beet Good for All Special Mention Ferry-Morse Seed Co., San Francisco, Calif.  Beet Little Marvel Special Mention Zwaan & Van der Molen, Voorburg, Holland.  Sweet Corn Kingscross Bantam Special Mention Northrup, King & Co., Minneapolis, Minn.  Sweet Corn Stowell's Evergreen Special Mention Associated Seed Growers, Inc., New Haven, Conn.	O	Penn State Ballhead	Award of Merit	<ul> <li>J. M. Lupton &amp; Son,</li> <li>Mattituck, L. I., New York.</li> <li>J. M. Lupton &amp; Son,</li> <li>Mattituck, L. I., New York.</li> <li>Vilmorin, Andrieux &amp; Co.,</li> </ul>
Beet Little Marvel Special Mention Zwaan & Van der Molen, Voorburg, Holland.  Sweet Corn Kingscross Bantam Special Mention Northrup, King & Co., Minneapolis, Minn.  Sweet Corn Stowell's Evergreen Special Mention Associated Seed Growers, Inc., Hybrid New Haven, Conn.	Endive	Penn State Ballhead Batavian Full Heart	Award of Merit Award of Merit	<ul> <li>J. M. Lupton &amp; Son, Mattituck, L. I., New York.</li> <li>J. M. Lupton &amp; Son, Mattituck, L. I., New York.</li> <li>Vilmorin, Andrieux &amp; Co., Paris, France.</li> <li>The Barteldes Seed Co.,</li> </ul>
Sweet Corn  Kingscross Bantam  Special Mention  Northrup, King & Co., Minneapolis, Minn.  Sweet Corn  Stowell's Evergreen Hybrid  Special Mention Associated Seed Growers, Inc., New Haven, Conn.	Endive Cucumber	Penn State Ballhead Batavian Full Heart The Barteldes	Award of Merit  Award of Merit  Award of Merit	<ul> <li>J. M. Lupton &amp; Son, Mattituck, L. I., New York.</li> <li>J. M. Lupton &amp; Son, Mattituck, L. I., New York.</li> <li>Vilmorin, Andrieux &amp; Co., Paris, France.</li> <li>The Barteldes Seed Co., Lawrence, Kansas.</li> <li>Zwaan &amp; Van der Molen,</li> </ul>
Sweet Corn Stowell's Evergreen Hybrid Special Mention Hybrid Special Mention New Haven, Conn.	Endive Cucumber Parsley Beet	Penn State Ballhead Batavian Full Heart The Barteldes Peerless	Award of Merit Award of Merit Award of Merit Award of Merit	<ul> <li>J. M. Lupton &amp; Son,     Mattituck, L. I., New York.</li> <li>J. M. Lupton &amp; Son,     Mattituck, L. I., New York.</li> <li>Vilmorin, Andrieux &amp; Co.,     Paris, France.</li> <li>The Barteldes Seed Co.,     Lawrence, Kansas.</li> <li>Zwaan &amp; Van der Molen,     Voorburg, Holland.</li> <li>Ferry-Morse Seed Co.,</li> </ul>
Hybrid New Haven, Conn.	Endive Cucumber Parsley Beet	Penn State Ballhead Batavian Full Heart The Barteldes Peerless Good for All	Award of Merit Award of Merit Award of Merit Award of Merit Special Mention	<ul> <li>J. M. Lupton &amp; Son, Mattituck, L. I., New York.</li> <li>J. M. Lupton &amp; Son, Mattituck, L. I., New York.</li> <li>Vilmorin, Andrieux &amp; Co., Paris, France.</li> <li>The Barteldes Seed Co., Lawrence, Kansas.</li> <li>Zwaan &amp; Van der Molen, Voorburg, Holland.</li> <li>Ferry-Morse Seed Co., San Francisco, Calif.</li> <li>Zwaan &amp; Van der Molen,</li> </ul>
(Continued on page 98)	Endive Cucumber Parsley Beet Beet Sweet Corn	Penn State Ballhead Batavian Full Heart The Barteldes Peerless Good for All Little Marvel	Award of Merit Award of Merit Award of Merit Award of Merit Special Mention Special Mention	<ul> <li>J. M. Lupton &amp; Son, Mattituck, L. I., New York.</li> <li>J. M. Lupton &amp; Son, Mattituck, L. I., New York.</li> <li>Vilmorin, Andrieux &amp; Co., Paris, France.</li> <li>The Barteldes Seed Co., Lawrence, Kansas.</li> <li>Zwaan &amp; Van der Molen, Voorburg, Holland.</li> <li>Ferry-Morse Seed Co., San Francisco, Calif.</li> <li>Zwaan &amp; Van der Molen, Voorburg, Holland.</li> <li>Northrup, King &amp; Co.,</li> </ul>
	Endive Cucumber Parsley Beet Beet Sweet Corn	Penn State Ballhead  Batavian Full Heart  The Barteldes  Peerless  Good for All  Little Marvel  Kingscross Bantam  Stowell's Evergreen	Award of Merit Award of Merit Award of Merit Award of Merit Special Mention Special Mention Special Mention	<ul> <li>J. M. Lupton &amp; Son, Mattituck, L. I., New York.</li> <li>J. M. Lupton &amp; Son, Mattituck, L. I., New York.</li> <li>Vilmorin, Andrieux &amp; Co., Paris, France.</li> <li>The Barteldes Seed Co., Lawrence, Kansas.</li> <li>Zwaan &amp; Van der Molen, Voorburg, Holland.</li> <li>Ferry-Morse Seed Co., San Francisco, Calif.</li> <li>Zwaan &amp; Van der Molen, Voorburg, Holland.</li> <li>Northrup, King &amp; Co., Minneapolis, Minn.</li> <li>Associated Seed Growers, Inc., New Haven, Conn.</li> </ul>



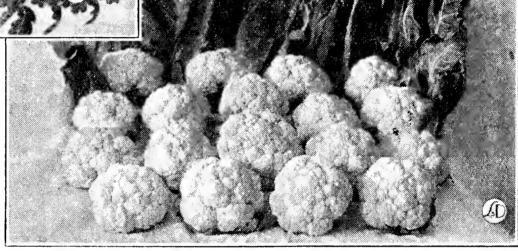
Verbena Dannebrog is OUR creation and ORIGINAL seeds of this beautiful novelty can be obtained from us ONLY. Unfortunately our 1934 crop was extremely limited due to poor growing conditions - and as the demand has been heavy we are entirely sold out.

It will of course be of the utmost help to us to have orders on file before our planting is done.

Might we therefore suggest that you send us YOUR order already NOW for delivery after the 1935 crop.

You will then be sure to get your seeds direct from the ORIGINATOR.

Also CALENDULA JEWEL and PANSY ST. KNUD are noted introductions of ours.



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In the line of VEGETABLE SEEDS we beg-to remind you of our long list of REAL OUT-STANDING strains which have been awarded 1st class certificates at competitive trials conducted under control of the Danish government.

Such results can be attained by painstaking and scientific breeding ONLY. Through breeding you get the QUALITY - and quality you MUST have.

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DAEHNFELDT'S CERTIFIED STRAINS And you are sure to get the RIGHT quality.



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BREEDERS AND GROWERS

### 1933 ALL-AMERICA WINNERS (Continued)

### **FLOWERS**

Variety	Name	Award	Entered for Trial by
Marigold Nasturtium	Guinea Gold Double Golden Gleam	Gold Medal Gold Medal	Bodger Seeds, Ltd., El Monte, Calif.
Campanula	Annual Canterbury Bells, Mixed	Gold Medal	Waller-Franklin Seed Co., Guadalupe, Calif.
Verbena	Beauty of Oxford, Hybrid	Award of Merit	Waller-Franklin Seed Co., Guadalupe, Calif.
Lupine	Hartwegi Giants Mixed	Award of Merit	Waller-Franklin Seed Co., Guadalupe, Calif.
Pansy Delphinium	Dwarf Swiss Giants Annual Cambridge Blue	Award of Merit Award of Merit	Vaughan's Seed Store, Chicago, Ill. Waller-Franklin Seed Co., Guadalupe, Calif.
Asters	Wilt Resistant	Award of Merit	Bodger Seeds, Ltd., El Monte, Calif.
Verbena	Lavender Glory	Award of Merit	Waller-Franklin Seed Co., Guadalupe, Calif.
Venidium	Fastuosum	Award of Merit	Bodger Seeds, Ltd., El Monte, Calif.
	· VI	EGETABLES	
Tômato	Pritchard or Scarlet Topper	Gold Medal	U. S. Dept. of Agriculture.
Cantaloupe	Honey Rock	Gold Medal	J. C. Robinson Seed Co., Waterloo, Nebr.
Bean	New Stringless Green Pod	Gold Medal	Associated Seed Growers, Inc., New Haven, Conn.
Carrot	Asgrow Imperator	Award of Merit	Associated Seed Growers, Inc., New Haven, Conn.
Beet	Ohio Canner	Award of Merit	J. M. Lupton & Son, Mattituck, L. I., New York.
Cucumber	Clark's Special	Award of Merit	Associated Seed Growers, Inc., New Haven, Conn.
Cantaloupe	Improved Perfecto	Award of Merit	Garwood & Woodside, Rocky Ford, Colo.
Watermelon	Graystone	Award of Merit	H. G. Hastings Co., Atlanta, Ga.
Bean	Asgrow Valentine	Award of Merit	Associated Seed Growers, Inc., New Haven, Conn.
Spinach	Nobel .	Award of Merit	Zwaan & Van der Molen, Voorburg, Holland.

For Your

# PROTECTION

and Ours

# USE THE STICKERS

IN THE BACK OF THE BOOK FACING THE BACK COVER

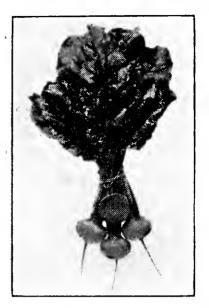


Asgrow Stringless Green Pod Bean Gold Medal 1933

### An All-American Trio



Asgrow Scarlet Dawn Tomato Gold Medal 1935



Asgrow Wonder Beet Gold Medal 1934

Asgrow Seeds Are Well Bred.

### Associated Seed Growers. Inc.

Breeders and Growers of Vegetable Seeds Since 1856 NEW HAVEN, CONN.

Breeding Stations and Production Branches in Eleven States Distributing Branch Warehouses at Atlanta, Ga.; Indianapolis, Ind., and Salinas, Calif.

### SEED BAG TRIERS

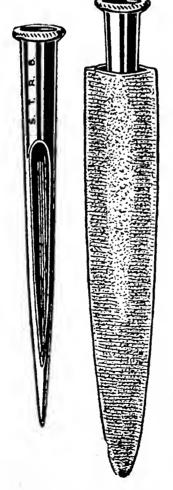
### QUICK, SAFE CONVENIENT

Seed triers for quick, convenient drawing of samples without opening or tearing bag. Brass with steel point heavily nickel plated, with solid leather protector.

5 or 6 inches long, with leather shield,
Price \$1.00 each, \$10.50 per doz.

9 in. long, with metal shield, Price \$2.00 each.

12 in. long. Price \$3.00 each



SEED TRADE REPORTING BUREAU CHICAGO, ILL. 325 W. Huron St.

# CUCLIAADET

A long white spine, intense dark green, slender variety. It is quite early, prolific and though longer than Clark's Special, is not as lengthy as The Vaughan. Flesh is good, very similar to The Vaughan. Raised and introduced by J. C. Robinson Seed Co., Waterloo, Nebraska.

### CANTALOUPE-Imperial

Cross from Honey Ball and Hale's Best by the introducer, Clyde Fluke of C. H. Weaver & Co., Brawley, California. Can be thoroughly vine ripened and still shipped long distances. It has prange flesh a nathed wallow (and to C. D.) orange flesh, a netted yellow fruit of Rocky Ford size, with unusual shipping quality and carrying excellent flavor and texture. The best cropper in a hot, dry season, and it almost never shows spoilage in the field even when quite ripe. Grown and entered by J. C. Robinson Seed Co., Waterloo,

I.C.Robinson\_ NEBRASKA WATERLOO

### **GROWERS FLOWER SEEDS**

### **CALIFORNIA**

Bodger Seeds, Ltd.
El Monte, Los Angeles County, Calif.
(See Adv. on Page 33)
Pieters-Wheeler Seed Co. (Sweet Peas)
Gilroy, Calif.
(See Adv. on Page 7)
Rohnert Co., Waldo (Sweet Peas)
Gilroy, Calif.
(See Adv. on Page 101)
Waller-Franklin Seed Co.
Guadalune. Calif.

Waller-Franklin Seed Co.
Guadalupe, Calif.

(See Adv. on Page 101)
Zvolanek, Ant. C. (Sweet Peas)
Lompoc, Calif.
Diener Co., Inc., Richard
Oxnard, Calif.
Shaw's Hybridiging Cordons

Shaw's Hybridizing Gardens

Shaw's Hybridizing Gardens
Petaluma, Calif.

Ferry-Morse Seed Co. (Sweet Peas)
San Francisco, Calif.
(See Adv. on Page 76)

Braslan Seed Growers Co., Inc.
San Jose, Calif.
(See Adv. on Page 93)

Kimberlin Seed Co. (Sweet Peas)
San Jose, Calif.

MacDonald Seed Co., The Wm.
Santa Maria, Calif.

Santa Maria, Calif. (See Adv. on Page 102)

### CANADA

Steele, Briggs Seed Co., Ltd.
Toronto, Canada
(See Adv. on Page 35)
Sunset Seed Co., Ltd.
Victoria, B. C., Canada

### COLORADO

Colorado Seed Co. (Evergreen Tree Seed and Columbines)

Denver, Colo.

Rocky Mountain Seed Co.

Denver, Colo.
Grand Junction Seed Co. (Zinnias)

Grand Junction, Colo.

(See Adv. on Page 71) Burrell Seed Growers Co.

Rocky Ford, Colo.

### CONNECTICUT

Comstock, Ferre & Co.

Wethersfield, Conn. (See Adv. on Page 91)

### GEORGIA

Athens Seed Co.

Athens, Ga. (See Adv. on Page 57)

### IDAHO

Woodacres, Fred B. Wood Boise, Idaho

### **ILLINOIS**

American Bulb Company

Chicago, Ill.

(See Adv. on Page 111)
Barnard Co., W. W.
Chicago, Ill.
Vaughan's Seed Store
Chicago, Ill.
Condon Bros. Seedsmen
Rockford, Ill.

Standard Seed Harms Company
Standard Seed Harms Company Stockton California

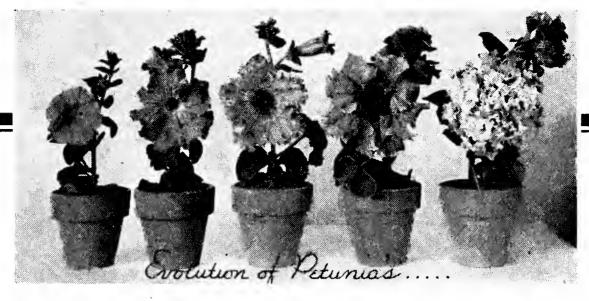
BEET CARROT CELERY **ENDIVE LETTUCE MUSTARD** ONION

**Box 572** 

**Post Office** 

Cable Address "Stanseed"

**PARSLEY PARSNIP** RADISH SALSIFY **SWEET PEAS** SWISS CHARD



### "MERIT" FLOWER SEEDS 1934 Novelties

Petunia Nana Compacta Martha Washington

Calendula Orange Shaggy Stock Double Giant Excelsior Deep Rose

New Verbena Nana Erecta Violet Bouquet

Annual Canterbury Bell Mission Bell Annual Canterbury Bell Blue Bell Delphinium Bellamosum Improved New Petunia Giant Double Fringed Heliotrope

New Petunia Giant Double Fringed Crimson

Aster Single Imperial Red Aster California Giant Sunshine White

Aster California Giant Sunshine Lavender

Aster California Giant Sunshine Rose

Aster California Giant Sunshine Shell Pink

VALLER-FRANKLIN

### **WALDO ROHNERT COMPANY**

R G

REGISTERED CABLE AND TELEGRAPHIC ADDRESS, ROHNERT, HOLLISTER

---Specialties-

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**MUSTARD** 

**CHARD** 

ONION

CARROT

**PARSLEY** 

**PARSNIP** 

CELERY

**ENDIVE** 

**RADISH** 

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MIXED SWEET PEAS

Contract Prices for Crop 1935 Mailed on Application

### WHOLESALE SEED GROWERS

FORTY-TWO YEARS OF SEED GROWING

### GROWERS FLOWER SEEDS-Continued

### LOUISIANA

Kalmbach-Burckett Co., Inc. Shreveport, La.

### **MASSACHUSETTS**

Donovan, James Saugus, Mass.

### **NEW JERSEY**

Leonard, I. & J. L.
Ionia, N. J.
Forbes & Co., Alex
Newark, N. J.

### **NEW YORK**

Harris Co., Joseph Coldwater, N. Y.

Page Seed Co.
Greene, N. Y.
(See Adv. on Page 57)

Herbst Bros., Inc.
New York, N. Y.
(See Adv. on Pages 73 and 131)
Stumpp & Walter Co.
New York, N. Y. Vaughan's Seed Store New York, N. Y.

### NORTH CAROLINA

Buxton White Seed Co. Asheville, N. C.

### OHIO

McCullough Seed Co., The J. Chas. Cincinnati, Ohio (See Adv. on Page 65)

### **OREGON**

Ellis, Mrs. Merton G. (Pansy) Canby, Ore. Harrold's Pansy Gardens (Pansy) Grants Pass, Ore. Steele's Pansy Gardens (Pansy) Portland, Ore. Hood Acres Troutdale, Ore.

### **PENNSYLVANIA**

Landreth Seed Co., D. Bristol, Pa. (See Adv. on Page 3) **Burpee Co., W. Atlee Philadelphia, Pa.**(See Adv. on Page 103)

### TEXAS

Nicholson Seed Co., Robt. Dallas, Texas

### VERMONT

Hawkins, Budd D. Reading, Vt.

### WISCONSIN

Toole, W. A. Baraboo, Wis. Rugowski Seed Co., J. K.
Manitowoc, Wis.
Jung Seed Co., J. W.
Randolph, Wis.

### FLOWER SEEDS—CALIFORNIA'S BEST SPECIALIZING IN FLORIST'S STRAINS

We are wholesale growers of the Highest Quality in Annual and Perennial flower seeds for the discriminating trade

ASK FOR OUR CATALOG AND PRICES

### THE WILLIAM MACDONALD SEED CO.

Exclusive Flower Seed Growers

SANTA MARIA

**CALIFORNIA** 

### Use a Sticker (Page 181) When Writing Advertisers

They stick with a lick, unlike the mule which you lick with a stick. Thanks, it will help us

### HELP YOU



Be Sure You Stock These Fast-Selling

# Burpee's Seeds in Colored Packets

### RETAILING AT 10c EACH—LIBERAL DISCOUNTS

Here's a source of extra business you can't overlook. Burpee's most popular flower and vegetable seeds are now offered in attractive 10c packets, printed in full colors. Last year was the first time Burpee's seeds had been sold to the public in this form through the trade. There is a tremendous market for this business. Get your share of it by carrying a complete stock.

### Write for Burpee's Red List

which contains a full list of Burpee's Seed in packets, as well as a list of all Burpee's Sweet Peas and other flower and vegetable seeds, with wholesale prices for seedsmen and dealers.

### W. ATLEE BURPEE CO. 792 Burpee Bldg. Philadelphia

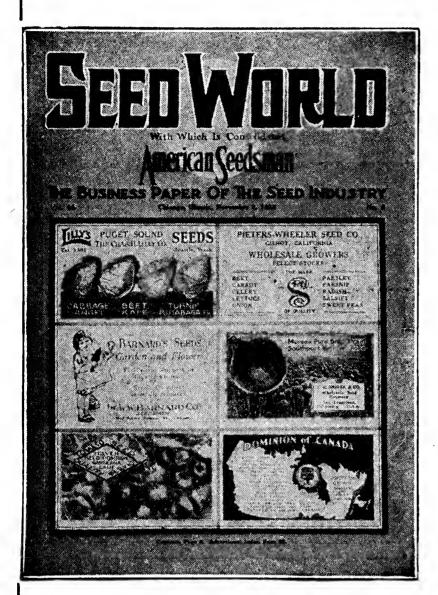
Advertisers Index-Page 180

### LONGEVITY OF FLOWER SEEDS

### Prepared by Bodger Seeds, Ltd., El Monte, California

Flowers	Number of Seeds to the Ounce	Lon- gevity (Years)	Period of Germi- nation (Days)	Flowers	Number of Seeds to the Ounce	Lon- gevity (Years)	Period of Germi- nation (Days)
Achillea (The Pearl)	200,000	5	10-15	Helichrysum	40,000	1-2	5-10
Aconitum	10,000	3	180	Heliotrope	55,000	1-2	30
Acroclinium	9,000	3	$\frac{12}{5}$	Hesperis	16,000	3-4	15 1
Ageratum	225,000	4	$\begin{array}{c} 5-10 \\ 8-18 \end{array}$	Hibiscus	4,000	3-4	5-7
Agrostemma	$60,000 \\ 60,000$	$rac{4}{4}$	5-13 5-8	Hollyhock	$\substack{3,500\\2,500}$	$\begin{array}{c} 3-4 \\ 1-2 \end{array}$	10-30 8-10
Amaranthus	30,000	4-5	5-10		ĺ		
Anchusa (Italica)	1,200	3	30	Impatiens	60,000	2	15-30
Anemone	40,100	$\frac{2}{4}$	20-60	Ipomea (Grandiflora)	100	3-4	10 - 12
Antirrhinum	$\begin{array}{c} 150,000 \\ -17,500 \end{array}$	$rac{3-4}{2}$	$\substack{8-12\\12-60}$	Kochia	50,000	1-2	10
Aquilegia Asparagus (Plum. &	11,500	2	12-00	Larkspur (Annual)	14,000	2-3	20
Spren.)	650	1-2	15 - 30	Lathyrus (Latifolius)	600	3-4	60
Aster	12,000	1-2	5 - 10	Lavender	30,000	1-2	30
Balloon Vine	400	3-4	<b>1</b> 5	Linum	9,000	5	10-15
Balsam Flower	3,500	5 - 6	8-10	Lobelia	750,000	$\frac{3-4}{2}$	5-20
Balsam Apple	$\frac{250}{2500}$	4	30	Lupinus Lychnis	$\begin{array}{c} 1,800 \\ 65,000 \end{array}$	$\begin{array}{c} 3-4 \\ 2-3 \end{array}$	$\begin{array}{c} 5-10 \\ 10-15 \end{array}$
Baptisia	$\substack{2,500\\200,000}$	$\begin{array}{c} 3-4 \\ 2-3 \end{array}$	$\substack{30-60\\5-10}$				
Blanket Fl. (Gaillardia	200,000	4-0	,5 -10	Marigold (African)	9,000	2-3	5-10
Gf.)	10,000	4	20	Marigold (French)  Marvel of Peru	$10,000\\350$	2 <b>-</b> 3 2 <b>-</b> 3	5-10 8-20
Boltonia	100,000	5	30	Matricaria	150,000	$\begin{array}{c} 2-3 \\ 2-3 \end{array}$	10-12
Brachycome	$\begin{array}{c} 150,000 \\ 70,000 \end{array}$	3-4 2-3	$\substack{10\\5-10}$	Maurandia	70,000	<b>2</b>	15-30
				Mesembryanthemum	200,000	3-4	5-10
Callianaia	3,000	$^{4-5}$	5-10	Mignonette	30,000	2-4	$\begin{array}{c} 8-10 \\ 10-15 \end{array}$
Calliopsis	$100,000 \atop 125,000$	2-3 3	$\begin{array}{c} 8-10 \\ 10-15 \end{array}$	Mimosa	$4,\!500$	$\begin{array}{c} 2-3 \\ 3-4 \end{array}$	5-10
Canary Bird Flower	400	3	10 - 10	Myosotis	55,000	2	10-15
Candytuft	10,000	3	5 - 10			<b>77</b> O	0.10
Canna	$\frac{100}{1000}$	$\frac{3}{2}$	5-10	Nasturtium	$\begin{smallmatrix}250\\100,000\end{smallmatrix}$	$\begin{array}{c} 7-8 \\ 2-3 \end{array}$	$\begin{array}{c} 8-10 \\ 20 \end{array}$
Cardinal Climber Carnation	$\begin{smallmatrix} 1,000\\15,000\end{smallmatrix}$	$\begin{array}{c} 5\\4-5\end{array}$	$10 - 20 \\ 10 - 15$	Nicotiana	200.000	$\frac{2-3}{3-4}$	5-10
Celosia	30,000	4	8-10	Nigella	12,000	1-2	10-15
Centaurea (Cyanus)	7,000	$\overline{3}$	8-10	Pansy	24,000	2 - 3	8-10
Chinese Wool Flower	30,000	4	8 - 10	Papaver	125,000	$\frac{2-3}{3-4}$	6-10
Chrysanthemum (Single	10.000	6-7	9 10	Penstemon	60,000	$\frac{1}{2}$	8-15
Annual)	$10,000 \\ 100,000$	$\frac{6-7}{3-4}$	$\begin{array}{c} 8-10 \\ 8-10 \end{array}$	Petunia	152,000	3-4	8-10
Clarkia	100,000	$\overset{\circ}{2}$ -3	10	Phlox	15,000	$\begin{array}{c} 1 - 3 \\ 2 - 3 \end{array}$	$\begin{array}{c} 8-10 \\ 12-15 \end{array}$
Cobea	400	2	15 - 20	PlatycodonPortulaca (Double)	$30,000 \\ 300,000$	$\frac{2-3}{3}$	8-10
Coleus	115,000	2	10-15	Portulaca (Single)	300,000	3	8-10
Convolvulus (Major) Coreopsis	$\substack{1,500\\12,000}$	$\begin{array}{c} 4-5 \\ 2 \end{array}$	5-10 5-10	Polyanthus	30,000	2	60
Cosmos	5,500	3	8-10	Poppy (Oriental)	150,000	$egin{array}{c} 5 \ 2 \end{array}$	15
Cypress Vine	2,200	4-5	10 - 20	Primula (Sinensis) Pueraria (Kudzu Vine)	$\substack{20,000\\2,500}$	4	$\begin{array}{c} \textbf{1015} \\ \textbf{30} \end{array}$
Dahlia	3,000	2–3	10 - 20	Pyrethrum (Aureum)	200,000	$\overset{f 2}{2}$	10 - 12
Daisy, African	10,000	<b>2</b>	$\frac{20}{20}$			9	10 15
Daisy (Bellis)	200,000	2-3	8-10	Ricinus (Zanzibariensis). Rudbeckia (Bicolor	50	<b>2</b>	12–15
Datura Delphinium	$\frac{2,000}{15,000}$	$\substack{3-4\\2}$	15-20	Superba)	90,000	<b>2</b>	8-10
Dianthus	$\begin{array}{c} 15,000 \\ 28,000 \end{array}$	5-6	$\substack{ 20 \\ 5-10 }$	Saponaria (Vaccaria)	6,000	2	10 .
Dianthus Barbatus	27,000	3	8-10	Salpiglossis	125,000	7-8	5-10
Digitalis	200,000	2	10-15	Salvia (Scarlet Sage)	10,000	${f 2}$	5-10
Dolichos	115	4	10-15	Scabiosa	5,000	2-3	10 - 15
Eschscholtzia	15,000	<b>2</b>	5-10	Scarlet Flax (See Linum) Schizanthus	100,000	4 5	5 10
Euphorbia (Variegata)	$2,\!500$	3-4	10 - 12	Shasta Daisy	25,000	$\begin{array}{c} \mathbf{4-5} \\ \mathbf{1-2} \end{array}$	$\begin{array}{c} \mathbf{5-10} \\ 20 \end{array}$
Gaillardia (Picta)	15,000	<b>2</b>	10-15	Stocks	18,000	$\frac{1-2}{5-6}$	3-10
Gentiana	6,000	3	10-20	Stokesia	3,500	<b>2</b>	10-15
Geum	$\begin{matrix} 15,000 \\ 100,000 \end{matrix}$	$rac{2}{3}$	15-60 6-10	Thunbergia	1,200	2	10-15
Gomphrena	5,800	$2\overset{3}{-3}$	10-15				
Gourds (Mixed)	300	5-6	12 - 15	Verbena Vinca	$\begin{array}{c} 10,000 \\ 22,000 \end{array}$	$\begin{array}{c} 1-2 \\ 1-2 \end{array}$	$10 - 15 \\ 10 - 12$
Gypsophila (Elegans)	25,000	2	5	Viola	25,000	$1-2 \\ 1-2$	8-10
Gypsophila (Paniculata).	35,000	4	15	Wallflower	15,000	5	5-10
Helenium	120,000	3-4	10 - 20	Wild Cucumber	$\begin{array}{c} 15,000\\125\end{array}$	${f 2}$	10-20
Heliantheus (Cheumanfalius)	0.000	0.0	<b>~</b> =0				
(Cucumenfolius) Heliantheus (Double	9,000	2-3	5 - 10	Xeranthemum .:	20,000	2	7-10
Chrys.)	700	2-3	5-10	Zinnia	4,000	6-7	5-10

## Seed World Advertising Produces Results



#### Because-

This publication is read by dealers in seeds and allied lines who are PAID SUBSCRIBERS.

Seed World maintains paid correspondents in eleven central markets—Washington, Toronto, St. Louis, Boston, San Francisco, Philadelphia, Milwaukee, Minneapolis, New York, Kansas City and Louisville.

More than forty authoritative representatives contribute articles on successful retail merchandising methods. Most of these men travel by auto through all parts of the United States and Canada, making direct contacts with the retail merchants. In this manner Seed World is always in contact with this enormous buying field of the retail seed merchant.

These articles cover every phase of retail merchandising, building the catalog, store interiors, collections, local advertising, etc. All are written by experts.

#### ENORMOUS BUYING FIELD

The clientele of the seed dealer today is not only the suburban gardener and truck grower—but the real dirt farmer—the man with a big acreage and big buying power.

Seed World circulates to seed store owners with a potential buying power of twelve and one-half million people. In addition to the retail store buyers, the mail order seedsmen reach annually another twenty-seven million five hundred thousand buyers through the distribution of their catalogs. Visualize what a buying power FORTY MILLION BUYERS REPRESENT!

The annual sales of merchandise sold by the seed trade other than seed amount to one hundred million dollars. In the last few years many items have been introduced and very successfully sold in this trade, thus producing an enormous business and making it one of the most outstanding distributing industries in the country today.

The seed trade can be a very profitable outlet for your product; get in touch with Seed World at once and let them, with their years of experience in this field, advise you on selling it.

## SEED WORLD

325 W. Huron Street

CHICAGO, ILL.

#### FOREIGN FLOWER SEEDS

AUSTRALIA	GERMANY
Anderson & Co., Ltd., Seedsmen	Benary, Ernst
Sydney, N. S. W., Australia	Erfurt, Germany
Fosters, Ltd. Sydney, N. S. W., Australia	(See Adv. on Page 107) Binnewics, E. (Cyclamen)
Gill & Searle	Alfeld, Germany
Melbourne, Australia	Bitterhoffsohn, August
Hackett, Ltd., E. & W.	Berlin, Germany
Adelaide, S. A., Australia Law Somner Pty., Ltd.	Dippe Gebruder, A. G. Quedlinburg, Germany
Melbourne, Victoria, Australia	Fischer, Ferdinand (Cyclamen)
Martin & O'Keefe, Ltd.	Wiesbaden-Aukamm, Germany
Sydney, N. S. W., Australia Railton, James	Haubner, August Eisleben, Germany
Melbourne, Victoria, Australia	Heinemann, F. C.
Shepherd & Son, Ltd., P. L. C.	Erfurt, Germany
Sydney, N. S. W., Australia Watters & Sons, Ltd.	Hesse & Sohn, Robt. Rieder Quedlinburg, Germany
Melbourne, Victoria, Australia	Mette, Heinr.
Yates & Co., Ltd., Arthur	Quedlinburg, Germany
Sydney, N. S. W., Australia	(See Adv. on Page 107) Muller, Heinrich
CANARY ISLANDS Wildpret Bros.	Neu Dietendorf, Germany
Port Orotava, Teneriffe, Canary Islands	Pape & Bergmann
CHINA	Quedlinburg, Germany
Manshu Nosan Shokai, Inc.	Sachs, David Quedlinburg, Germany
Dairen, So. Manchuria, China <b>DENMARK</b>	Teicher, Paul
L. Daehnfeldt & Theodor Jensen, Ltd.	Striegau, Germany
Odense, Denmark	Weigelt & Co. Erfurt, Germany
(See Adv. on Page 97)	Wrede, H. (Pansy)
Ohlsen's Enke, J. E. Copenhagen, Denmark	Lueneburg, Germany
(See Adv. on Page 69)	Zacharias, Paul
ENGLAND	Ermsleben, Germany
Bunting & Co., G. A. London, W. C. I., England	HOLLAND Rood & Zoon, P.
London, W. C. I., England	Bovenkarspel, Holland
Cooper, Taber & Co., Ltd. London, England	Sluis Bros., Ltd.
London, England Harrison & Sons	Enkhuizen, Holland
Leicester, England	Sluis & Groot's Zaadteelt & Zaadhandel Enkhuizen, Holland
Hurst & Son London, England	Vis Bros.
Kelway & Son (1933), Ltd.	Enkhuizen, Holland
Langport, England	HUNGARY
(See Adv. on Page 107) King & Co., Ltd., E. W.	Hungarian Seed Culture Co., Ltd. Budapest, Hungary
Coggeshall, Essex, England	Kertesz, Ludwig
Coggeshall, Essex, England Sharpe & Co., Ltd., Chas.	Budapest, Hungary
Sleaford, England Watkins & Simpson, Ltd.	INDIA
London, England	Ghose & Co., G. Darjeeling, India
FRANCE	ITALY
Barbier & Fils, P. A. St. Remy-de-Provence (Bouches du	Bulleri, Francesco
Rhone), France	Scafati, Italy
Cayeux & Le Clerc	Ditta, D'Anna Francesco San Giovanni A Teduccio, Italy
Paris, France Clause, L.	Herb, M.
Bretigny-Sur-Orge (S. & O.), France.	Naples, Italy
Honore Roumanille & Fils	Mennella, Carmine Faraone Torre Del Greco (Near Naples), Italy
St. Remy-de-Provence (Bouches du Rhone), France	(See Adv. on Page 85)
Huber & Co., Ch.	JAPAN
Hyeres-les-Palmiers (Var), France	Nishikata & Son
Moreau Bros. Brain-Sur-l'Authion (Maine & Loire),	Yokohama, Japan Sakata & Co., T.
France	Yokohama, Japan
Perrin, Louis	(See Adv. on Pages 73 and 131)
St. Remy-de-Provence (Bouches du	Takii & Co., Ltd. Kyoto, Japan
Rhone), France Rachet Freres	Tokyo Konoen, Ltd.
St. Remy-de-Provence (Bouches du	Shibuya, Tokyo, Japan
Rhone), France	Yamato Seed & Plant Co., Ltd.
Rivoire Pere & Fils Lyon (Rhone), France	Mejiro, Tokyo, Japan SWITZERLAND
Roumanille Lafayette Pere & Fils	Correvon, H.
St. Remy-de-Provence (Bouches du	Chene Bourg, Geneva, Switzerland
Rhone), France Roustan Servan & Cie	Dammann, F.
St. Remy-de-Provence, France	Lugano, Switzerland (See Adv. on Page 87)
Simon Louis Freres & Cie	Haubensak Sons, Fr.
Bruyeres-le-Chatel (S. & O.), France Tezier Freres	Basel, Switzerland
Valence-Sur-Rhone (Drome), France	Mauser, Emil Zurich, Switzerland
Vilmorin Andrieux & Co.	Muller & Co., E. S. A.
Paris, France	Zurich, Switzerland

Leading Seed Merchants in thirty-one foreign countries read SEED WORLD on a regular paid subscription basis. They are interested in what you have to sell. Tell them through the advertising columns of

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#### BULBS—AMERICAN DEALERS

Aggeler & Musser Seed Co. Los Angeles, Calif. Alexander, J. K. E. Bridgewater, Mass.

American Bulb Co.

Chicago, III.

(See Adv. on Page 111)

Brown Bulb Ranch
Capitola, Calif.

Burpee Co., W. Atlee Philadelphia, Pa. (See Adv. on Page 103)

Corneli Seed Co. St. Louis, Mo. (See Adv. on Page 25)

Cowee, Arthur
Berlin, N. Y.
Croom & Bro., John F.
Magnolia, N. C.
Dreer, Henry A.
Philadelphia, Pa.

Ellis Bulb Gardens, Merton G. Canby, Ore.

Fight Floral Co. New York, N. Y.

Fussell, J. B.
Rose Hill, N. C.
Gill Bros. Seed Co. (Dahlia)

Portland, Ore.
Grootendorst, A. M.
Benton Harbor, Mich.

Guille, Walter J.

New York, N. Y.

(See Adv. on Page 111)

Henderson & Co., Peter

New York City, N. Y.

Henry & Lee

New York, N. Y.

Holland-American Seed Co.

Holland-American Seed Co. Grand Rapids, Mich.

Hyde Co., H. A. Watsonville, Calif.

Ireland, Z. Jay Pleasant Valley, N. Y.

Irwin, Roman J.
New York, N. Y.
Kunderd, A. E. (Gladiola)
Goshen, Ind.

Larson, Leonard C. Portland, Ore.

Lawler, George Tacoma, Wash.

Leonard Seed Co.
Chicago, Ill.
(See Adv. on Third Cover)

Main, Arthur B. Santa Cruz, Calif.

McHutchison & Co.
New York, N. Y.
(See Adv. on Page 161)
Michell Co., Henry F.
Philadelphia, Pa.
Mount Arbor Nurseries
Shenandoah, Iowa
Quality Seed & Bulb Co.

Quality Seed & Bulb Co. Chicago, Ill.

Rynveld & Sons New York, N. Y.

Schwake & Co., Inc., Chas. New York, N. Y.

St. Louis Seed Co.

St. Louis, Mo.
Skidelsky & Co., S. S.
New York, N. Y.
Stumpp & Walter Co.
New York City, N. Y. Van Waveren & Son, Inc., M. New York, N. Y.

Vaughan's Seed Store Chicago, Ill.

Vos & Son, P.
Grand Rapids, Mich.
Ward & Co., R. M.
New York, N. Y.

#### BULBS—FOREIGN DEALERS

Lemaire & Julien Paris, France

#### GERMANY

Berham, Chr.
Stendal, Germany
Benary, Ernst

Benary, Ernst
Erfurt, Germany
(See Adv. on Page 107)
Chehler, Carl
Halberstadt, Germany
Haage & Schmidt
Erfurt, Germany
Heinemann, F. C.
Erfurt, Germany
Hesse & Sohn, Rob.
Rieder am Hacz, Germany
Kaiser, Ferdinand
Eisleben, Germany
Leib, Wilhelm
Arnstadt, Germany
Lieban & Co.

Lieban & Co. Erfurt, Germany Lorenz, Chr. Erfurt, Germany

Manshu Nosan Shokai, Inc.
Dairen, So. Manchuria, China
Pabst, Carl
Erfurt, Germany
Pape & Bergmann
Quedlinberg, Germany
Pfilzer, Wilhelm
Stuttgart, Germany
Putz. Otto

Stuttgart, Germany
Putz, Otto
Erfurt, Germany
Reine, Schoo & Co.
Fornosch-Holstein. Germany
Roemer, Friedrich
Quedlinberg, Germany
Schraeder, C. G.
Saltwedel, Germany
Stenger & Rotter
Erfurt, Germany
Wehranpfannig, A. Wehranpfannig, A.
Quedlinberg, Germany

Wiegelt & Co. Erfurt, Germany

#### HOLLAND

Byvoet Bros. Overeen, Haarlem, Holland

De Graaf Bros. Noordwyk, Holland
De Graaf & Sons, H.
Lisse, Holland
Eldering & Son, W. J.
Overeen, Holland
Grullemans & Sons, J. J.

Lisse, Holland

Jonkheer & Sons, C.

Hillegom, Holland

Segers Brothers

Lisse, Holland Segers, Gerrit

Lisse, Holland Steelman & Sons, C. J. Sassenheim, Holland

Straathof, L. H. Hillegom, Holland

Tegelaar Bros.
Lisse, Holland
Van Der Schoot, R. A.
Hillegom, Holland
Van Der Veld, George
Lisse, Holland
Van Wayeren Stambolo

Van Waveren Stamhois Nurseries Hillegom, Holland

**Bulbs—Continued JAPAN** 

Bunting & Co., Isaac Yokohama, Japan Sakata & Co., T. Yokohama, Japan

(See Adv. on Pages 73 and 131)

#### **SWEDEN**

Holmberg, Algot & Son Norrkoping, Sweden

#### NURSERY STOCK

Bohlender Sons, Peter
Tippecanoe City, Ohio
Clinton Falls Seed & Nursery Co.
Owatonna, Minn.
Cutler & Downing Co.
Benton Harbor, Mich.
Elliott Ltd. Clarence Elliott, Ltd., Clarence Stevenage, Herts, England Ernst Nurseries Ernst Nurseries
Eaton, Ohio
Forest Nursery Co.
McMinnville, Tenn.
Gardens of the Blue Ridge
Ashford, No. Carolina
Harmel Peony Co.
Berlin, Md.
Harmon Nursery
Prospect Ohio Prospect, Ohio
Hill Nursery, D., The
Dundee, Ill.
Jackson & Perkins Co.
Newark, N. Y.
Mount Arbor Nurseries Shenandoah, Iowa
Naperville Nurseries
Naperville, Ill.
North-Eastern Forestry Co., The
Cheshire, Conn.
Northfield Seed & Nursery Co.
Northfield, Minn.
Onarga Nursery Co.
Onarga, Ill.
Piedmont Forestry Co.
Bound Brook, N. J.
Rice Nurseries, T. W.
Geneva, N. Y.
Shenandoah Nurseries
Shenandoah, Iowa Shenandoah, Iowa Shenandoah, Iowa
Smith Co., W. & T.
Geneva, N. Y.
State Nursery & Seed Co.
Helena, Mont. Storrs & Harrison Co.
Painesville, Ohio Washington Nursery Co.
Toppenish, Wash.
Weaver Gardens Co., The
Wichita, Kans.
Westminster Nurseries, The
Westminster Md Westminster Nurseries, The
Westminster Nurseries, The
Westminster Nurseries, The
Wickliffe, Ray (Osage Orange Seed)
Seneca, Kans.
Willadean Nurseries, Inc.
Sparta, Ky.

#### CACTI

Clark, Mrs. Fred
Van Horn, Texas
Consolidated Displays, Inc.
Chicago, Ill.

Willis Nursery Co., The Ottawa, Kan.
Wilson & Co., Inc., C. E. Manchester, Conn.

Desert Plant Co.
El Paso, Texas
Schroeder, T. R.
Chicago, Ill.

#### **EVERGREENS**

Appalachian Evergreen Co. Doeville, Tenn. Conwell, Inc., H. Ernest
Milton, Dela.
Cumberland Valley Nursery Co., Inc.
McMinnville, Tenn. Jackson & Perkins Co. Newark, N. Y. Mount Arbor Nurseries Shenandoah, Iowa Naperville Nurseries
Naperville, Ill.
North-Eastern Forestry Co.
Cheshire, Conn.
Rosebank Nursery Co.
Huntsville, Ala.
State Nursery & Seed Co.
Helena, Mont.
Swedberg Bros. Nurseries
Battle Lake, Minn.

#### **FERNS**

Ferndale Nursery Askov, Minn.

#### FRUIT TREES

Cumberland Valley Nursery Co., Inc.
McMinnville, Tenn.
Jackson & Perkins Co.
Newark, N. Y.
May Seed & Nursery Co. Shenandoah, Iowa Mount Arbor Nurseries Shenandoah, Iowa
Potter Sales Nursery Co.
McMinnville, Tenn. Rosebank Nursery Co. Huntsville, Ala. Smithville Nursery Co. Smithville, Tenn.

#### FRUIT—SMALL

Bauer Plant Co., J. A. (Strawberry)
Judsonia, Ark.
Cumberland Valley Nursery Co., Inc.
McMinnville, Tenn. J. A. (Strawberry) Mount Arbor Nurseries
Shenandoah, Iowa
Schifferli & Son Nurseries, The F. E.
Fredonia, N. Y.
Thomas, W. W. (Strawberry) Anna, Ill.

#### GRAPE VINES

Mount Arbor Nurseries Shenandoah, Iowa Munson Nurseries Denison, Texas

#### **ORNAMENTALS**

Brainard's Nurseries & Greenhouses, Inc.
Des Moines, Iowa
Cumberland Valley Nursery Co., Inc.
McMinnville, Tenn.
Jackson & Perkins Co.
Newark, N. Y.
Mount Arbor Nurseries
Shenandoah Towa Shenandoah, Iowa Naperville Nurseries
Naperville, Ill.
Wilson & Co., C. E.
Manchester, Conn.

#### PERENNIALS

Cottage Gardens, The (Peonies)
Lansing, Mich.
Locust Valley Dahlia Farms Cold Springs Harbor, L. I., N. Y. Jackson & Perkins Co.
Newark, N. Y.
Mount Arbor Nurseries Shenandoah, Iowa Naperville Nurseries Naperville, Ill. Wilson & Co., C. E. Manchester, Conn.

#### ROSE BUSHES

Howard Rose Co., Inc. Hemet, Calif. Jackson & Perkins Co. Newark, N. Y.
Mount Arbor Nurseries
Shenandoah, Iowa
Wilson Co., C. E.
Manchester, Conn.

#### WATER PLANTS

Aquatic Plant Nursery
New Orleans, La.

Auburndale Goldfish Co.
Chicago, Ill.
(See Adv. on Page 150) See Adv. on Page 150
Beldt's Aquarium
St. Louis, Mo.
Lakeview Ponds, The
Mt. Airy, Cincinnati, Ohio
Loveland Goldfish Farms
Loveland, Ohio
Pacific Goldfish Farm
Westminster, Calif. Westminster, Calif.

(See Adv. on Page 149)
Terrell's Aquatic Farm
Oshkosh, Wis.
Woodford Water Gardens
Van Nuys, Calif.

#### ONION SET GROWERS

Algers, K. W.
Crystal City, Texas
Barteldes Seed Co.
Denver, Colo.
Bruce & Co., Ltd., John A.
Hamilton, Ont., Canada
Chester Co., The H. H.
Chicago, Ill.
Condon Bros., Seedsmen
Rockford, Ill.
Corneli Seed Co. Corneli Seed Co.
St. Louis, Mo.
(See Adv. on Page 25)
Dimitracopoulos, M., and P. Xenakis Salonica, Greece
Dutch Valley Growers, Inc.
So. Holland, Ill.
Grand Junction Seed Co. Grand Junction, Colo.
(See Adv. on Page 71)
Gridley Maxon Co.
Chicago, Ill. Hayes Labish Farms Salem, Oregon Hollenbach, Peter Chicago, Ill.

Illinois Onion Set Growers Exchange
South Holland, Ill.

Joannides, D. N.
Salonica, Greece
Kaufmann's Onion Set Warehouse
South Holland, Ill.

Landreth Seed Co., D.
Bristol. Pa. Bristol, Pa. (See Adv. on Page 3)

Leonard Seed Co.
Chicago, Ill.
(See Adv. on Third Cover)

(See Adv. on Page 111)

Meeters, Inc.

Lansing, Ill.

Northrup, King & Co.
Minneapolis, Minn.
(See Adv. on Page 5) Pals Bros. So. Holland, Ill.
Rau, Lawrence
Chicago, Ill.
Saltiel, Fils D'Isac S.
Salonica, Greece Schilder Bros.
Chillicothe, Ohio
Steele, Briggs Seed Co.
Toronto, Canada
(See Adv. on Page 35) (See Adv. on Pa Van Baren Bros. So. Holland, Ill. Van Deursen, J. S. Chicago, Ill. Vaughan's Seed Store Chicago, Ill. Waterman, Chas. So. Holland, Ill. Woodruff & Sons, F. H. Milford, Conn. (See Adv. on Fr (See Adv. on Front Cover)

#### PLANTS—FLOWER

Alexander, J. K.
East Bridgewater, Mass.
American Bulb Co. American Bulb Co.
Chicago, Ill.
(See Adv. on Page 111)
Brazil Dahlia Farm
Indianapolis, Ind.
Bushy Flower Gardens
Bushy, Va.
Capital Fuel & Feed Co.
Phoenix, Ariz.
Chautauqua Flower Fields
Bemis Point, N. Y.
Hand Seed Co., Inc., A. M.
Portland, Ore.
Hardy Plant & Pansy Farm
Baraboo, Wis.
Hyde Co., H. A. Baraboo, Wis.

Hyde Co., H. A.

Watsonville, Calif.

Ireland, Z. Jay

Pleasant Valley, N. Y.

Lagomarsino & Sons, F.

Sacramento, Calif.

(See Adv. on Page 34)

Lind Plant Farms

Cotulla, Texas

McGregor Bros. Co.

Springfield, Ohio

McHutchison & Co.

New York, N. Y.

(See Adv. on Page 161)

Merritt, John W.

Farmingdale, L. I., N. Y.

Mount Arbor Nurseries

Shenandoah, Iowa

Myers & Scott

Van Buren, Ark.

Onarga Nursery Co.

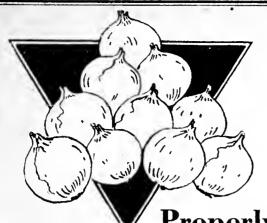
Onarga, Ill.

Rosebank Nursery Co. Onarga, Ill. Rosebank Nursery Co. Rosebank Nursery Co.

Huntsville, Ala.
Schaumberg, Henry
Hammonton, N. J.
Schmeiske, Wm. F.
Kirkwood, N. Y.
Skidelsky & Co., S. S.
New York City, N. Y.
Smith Plant Farm, E. C.
Milano, Texas
State Nursery & Seed Co.
Helena, Mont.
Texas Seed & Plant Co.
Dallas, Texas

#### VEGETABLE PLANTS

Albany Plant & Seed Co.
Albany, Ga.
Alger, K. W. (Grower)
Crystal City, Texas
Alvy, Jack
Van Buren, Ark.
Blackshear Plant Co.
Blackshear, Ga.



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Fulwood, P. D.
Tifton, Ga. (See Adv. on Page 23)
Geraty & Co., Wm. C
Yonges Island, S. C. Grand Junction Seed Co. Great Junction, Colo.

(See Adv. on Page 71)
Grossmann & Son, W.
Petersburg, Va.
Hammell Seed Farms, Geo. Q.
Cedarville, N. J.
Harvey Seed Co.
Montgomery, Ala.
Hoopes Co., J. E. (Plants and Asparagus Roots)
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Albany, Ga.
Kille, Willard B.
Swedesboro, N. J.
Lagomarsino & Sons, F.
Sacramento, Calif.
(See Adv. on Page 34)
Ledden & Son Orol (See Adv. on F
Ledden & Son, Orol
Sewell, N. J.
Lehmann's Seed Store
Baton Rouge, La.
Leonard, I. & J. L.
Iona, N. J.
Lind Plant Farm
Cotulla, Texas
May & Son, Inc., W. H.
Alexandria, Va.
Myers Seed & Plant Co Myers Seed & Plant Co. Tifton, Ga. Old Dominion Plant Co. Franklin, Va. Omega Plant Co. Omega, Ga. Parker Farms Tifton, Ga. Parks, Walter Darien, Ga. Piedmont Plant Co. Albany, Ga.
Quality Seed House
Chickasha, Okla.
Rochelle & Sons. F. W.
Chester, N. J.
Rochelle, Paul F.
Morristown, N. J.
Ross Bros. Seed Co.
Wichita, Kan.
Shreve & Son, J. W.
Andalusia, Ala.
Service Plant Co.
Omega, Ga. Albany, Ga. Omega, Ga. Sims Plant Co. Pembroke, Ga. Steiner Branch Seed Co. Grovetown, Ga.
Stevenson, G. W.
Fordyce, Ark.
Tidewater Plant Co.
Franklin, Va. Todd, Geo. M.
Greensboro, N. C.
Valdosta Plant Co.
Valdosta, Ga.
Van Antwerp Seed Co.
Mobile, Ala.

Vickery Plant Co. Ennis, Tex.

Wards Gardens Wards Gardens
Mobile, Ala.
Warrick, Ray W.
Crozet, Va.
Williams, W. W.
Quitman, Ga.
Wood & Son, T. W.
Richmond, Va.
Wyatt & Sons Co., Job P.
Raleigh, N. C.

#### SEEDS-MISCELLANEOUS

#### CANARY SEED

Blamberg Bros., Inc.
Baltimore, Md.
(See Adv. on Page 23)
Cornell Seed Co. Crawford, Keen & Co.
New York City, N. Y.
De Groot, Van Nes, & Co.
Rotterdam, Holland Dickinson Co., Albert
Chicago, Ill.
(See Adv. on Page 132)

Duryea Seed Co., Inc.
New York, N. Y.
(See Adv. on Page 63)

German, Gale T.
New York, N. Y.
Handelsverband G. M. b. H. Handelsverband G. M. b. H. Danzig (See Adv. on Page 69) Herbst Bros. New York City, N. Y. New York City, N. Y.

(See Adv. on Pages 73 and 131)

Hinton & Co., Inc.
New York, N. Y.

Johnson, Inc., J. Oliver
Chicago, Ill.

Justrite Co., The
Milwaukee, Wis.

Kellogg-Kelly Seed Co.
St. Joseph, Mo.
(See Adv. on Page 61)

Magnesia Products Co. (See Adv. on Page 61)

Magnesia Products Co.

Milwaukee, Wis.

Mangelsdorf & Bro., Ed. F.

St. Louis, Mo.

(See Adv. on Page 13)

McCullough Seed Co., The J. Chas.

Cincinnati, Ohio

(See Adv. on Page 65) (See Adv. on Page 65)
Philadelphia Seed Co.
Philadelphia, Pa. (See Adv. on Page 26)
Radwaner Seed Co., I. L.
New York, N. Y.
(See Adv. on Page 63) Radway-McCullough Seeds, Inc. New York, N. Y. (See Adv. on Page 63) Scarlett & Co., Wm. G. Baltimore, Md. (See Adv. on Page 40) St. Louis Seed Co. St. Louis, Mo. Von Damm, F. A. Brooklyn, N. Y.

#### LAWN GRASS SEED

Aggeler & Musser Seed Co.

Los Angeles, Calif.

American Seed Co.

Detroit, Mich.

Arizona Feed & Seed Association

Phoenix, Ariz.

Bagnall, Howard E.

Kansas City, Mo.

Barnard Co., W. W.

Chicago, Ill.

Lawn Grass Seed—Continued
Chanderlin Seed Co.
New York, N. Y.
Cornell Seed Co.
St. Louis, Mo.
(See Adv. on Page 25)
Crossland, W. H.
Milwaukee, Wis.
(See Adv. on Page 57)
Dickinson Co., Albert
Chicago, Ill.
(See Adv. on Page 132)
Doughten Seed Co.
Jersey City, N. J.
Duryea Seed Co., Inc.
New York, N. Y.
(See Adv. on Page 63)
Engbretson Seed Co.
Astoria Ore.
Fertilawn Co.
Hamilton, N. Y.
(See Adv. on Page 31)
Hunkel Co., G. H.
Milwaukee, Wis.
Hyper-Humns Co.
Newton, N. J.
(See Adv. on Page 123)
Johnson, Inc., J. Oliver
Chicago, Ill.
Kellogg-Kelly Seed Co.
St. Joseph, Mo.
(See Adv. on Page 61)
Kellogg Seed Co.
Milwaukee, Wis.
Klein, G. A.
Los Angeles, Calif.
Landreth Seed Co., D.
Bristol, Pa.
(See Adv. on Page 3)
Leonard Seed Co.
Chicago, Ill.
(See Adv. on Page 61)
Mangelsdorf & Co., F. A.
Atchison, Kans.
Mangelsdorf & Bro., Ed. F.
St. Louis, Mo.
(See Adv. on Page 63)
McCullough's Sons Co., The J. Chas.
Cincinnati, Ohio
(See Adv. on Page 63)
McCullough's Sons Co., The J. M.
Cincinnati, Ohio
(See Adv. on Page 63)
McCullough's Sons Co., The J. M.
Cincinnati, Ohio
(See Adv. on Page 63) Woodruff & Sons, F. H.
Milford, Conn.
(See Adv. on Front Cover) Lawn Grass Seed—Continued POP CORN

American Popcorn Co.
Sioux City, Iowa
Bagnall, Howard E.
Kansas City, Mo.
Clark & Sons, C. S.
Wakeman, Ohio
(See Adv. on Page 25)
Cornell Seed Co.
St. Louis, Mo.
(See Adv. on Page 25)
Craver-Dickinson Seed Co.
Buffalo, N. Y.
(See Adv. on Page 13)
Dickinson Co., Albert
Chicago, Ill.
(See Adv. on Page 132)
Haddon, J. W.
Hickory, Miss.
Indiana Pop Corn Co.
Muncie, Ind.
Mangelsdorf & Co., F. A.
Atchison, Kans.
Tuttle Popcorn Co., R. M.
Spencer, Iowa
POTATO SEED
Interstate Seed & Grain Co.
Fargo, N. D. POP CORN Interstate Seed & Grain Co. Fargo, N. D. (See Adv. on Page 41) Fargo, N. D.

(See Adv. on Page 41)

SEED POTATOES

Aggeler & Musser Seed Co.
Los Angeles, Calif.

Barnes Co., O. J.
Grand Forks, N. D.

Cochrane Co., T. H.
Portage, Wis.

Davenport Seed Co.
Davenport, Iowa
(See Adv. on Page 39)

Farmer Seed & Nursery Co.
Faribault, Minn.
(See Adv. on Page 115)

Far North Potato Ass'n
Park River, N. D.

Hand Seed Co., Inc., A. M.
Portland, Ore.
Hickox-Rumsey Co.
Batavia, N. Y.
Hopkins & Co., H. A.
Minneapolis, Minn.

Hyde Co., H. A.
Watsonville, Calif.

Interstate Seed & Grain Co.
Fargo, N. D.
(See Adv. on Page 41)

May & Co., Inc., W. H.
Alexandria, Va.

Miller & Co., Albert
Chicago, Ill.

Myers & Scott
Van Buren, Ark.

Philadelphia Seed Co.
Philadelphia, Pa.
(See Adv. on Page 26)

Pinner & Co.
Suffolk, Va.

Portland, Ore.

Rohrer & Bro, P. L.
Smoketown, Pa.
Scarlett & Co., Wm. G.
Baltimore, Md.
(See Adv. on Page 40)

Simmons Seed Co.
Moorhead, Minn.

Sun-Field Seed Service
Chicago, Ill.

Valker-Christensen Co.
Minot, N. Dak.
Van Antwerp Seed Co.
Moscow, Idaho
(See Adv. on Page 31)

Woodruff & Sons, S. D.

Orange Conn Cincinnati, Ohio
(See Adv. on Page 63)

McHutchison & Co.
New York, N. Y.
(See Adv. on Page 161)

Mount Arbor Nurseries

Shanandoah Jawa Shenandoah, Iowa
Northwest Seed Co., The
Seattle, Wash.
O. & M. Seed Co., The Seattle, Wash.

O. & M. Seed Co., The
Green Springs, Ohio
(See Adv. on Page 115)

Philadelphia Seed Co.
Philadelphia, Pa.
(See Adv. on Page 26)

Radwaner Seed Co., I. L.
New York, N. Y.
(See Adv. on Page 63)

Radway-McCullough Seeds, Inc.
New York, N. Y.
(See Adv. on Page 63)

Scarlett & Co., Wm. G.
Baltimore, Md.
(See Adv. on Page 40)

Scott Co., I. W.
Pittsburgh, Pa.

Scott & Sons Co., O. M.
Marysville, Ohio
(See Adv. on Page 31)

Sevin-Vincent Seed Co.
San Francisco, Calif.

Sun-Field Seed Service
Chicago, Ill.

Williamson, Garfield
New York City, N. Y.
(See Adv. on Page 92) Moscow, Idaho
(See Adv. on Page 31)
Woodruff & Sons, S. D.

Orange, Conn.

## SEED CORN Aggeler & Musser Seed Co. Los Angeles, Calif. Associated Sced Growers, Inc. New Haven, Conn. (See Adv. on Page 99) Athens Seed Co. Athens, Ga. (See Adv. on Page 57) Atlantic Seed Co., Inc. Philadelphia. Pa. Beridon, Jr., E. J. Philadelphia, Pa. Beridon, Jr., E. J. Hamburg, La. (See Adv. on Page 23) Bernhard Seed Co., A. Parkston, S. D. Bonahoom Seed Co., N. Hastings, Nebr. Bowman Seed Co., The Concordia, Kan. Clark & Sons, C. S. Wakenan, Ohio (See Adv. on Page 25) Cochrane Co., T. H. Portage, Wis. Coe Seed & Grain Co., D. O. Topeka, Kan. Comstock, Ferre & Co. Wethersfield, Conn. (See Adv. on Page 91) Corneli Seed Co. St. Louis, Mo. (See Adv. on Page 25) Council Bluffs Seed Co. Council Bluffs, Iowa Coy & Son, Chauncey P. Waterloo, Neb. Crabbs, Reynolds, Taylor Co. Crawfordsville, Ind. Crookham Co. Caldwell, Ida. Beridon, Jr., E. J. Crawfordsville, Ind. Crookham Co. Caldwell, Ida. Dakota Improved Seed Co. Mitchell, S. D. (See Adv. on Page 57) Dassel Seed Co., Inc. Dassel. Minn. Davenport, Iowa (See Adv. on Page 39) Davis Seed Co., E. C. St. Peter, Minn. Davis, Zack Delaware, Ohio Dickinson Co., Albert Chicago, Ill. (See Adv. on Page 132) Eagle Mill & Elevator Co. (Seed Corn) Higginsville, Mo. Farmer Seed & Nursery Co. Faribault, Minn. (See Adv. on Page 115) Gilmore, E. L. C. Ashland, Neb. Goldberg Seed & Feed Co. Fargo, N. D. Griswold Seed & Nursery Co. Lincoln, Nebr. (See Adv. on Page 65) Grossman & Son. W. Petersburg, Va. Healy Seed Co. Belle Center, Ohio Interstate Seed & Grain Co. Fargo, N. D. (See Adv. on Page 41) Iroquois Seed Service Chicago, Ill. (See Adv. on Page 115) Jacques, Wm. H. Prescott, Wis. (See Adv. on Page 29) Johnson, Inc., J. Oliver Chicago, Ill. Keller & Sons, Geo. Quincy, Ill. Kelly Seed Company Peoria, Ill. Crookham Co. Caldwell, Ida.

Kelly Western Co. Salt Lake City, Utah King & Sons, H. C.

Battle Creek, Mich.

(See Adv. on Page 27)

Klingensmith Seed Co., E. J.

New Augusta, Ind.

Landreth Seed Co., D.

Bristol, Pa.

(See Adv. on Page 3) (See Adv. on Page 3)

Mangelsdorf & Bro., Ed. F.

St. Louis, Mo.

(See Adv. on Page 13) Minneapolis Seed Co.

Minneapolis, Minn.

(See Adv. on Page 61)

Morris Grain & Seed Co.

Morris, Ill. Newday Seeds, Inc.
Fargo, N. D.
(See Adv. on Page 25)
Nishna Valley Seed Co.
Shenandoah, Iowa Northrup, King & Co. Minneapolis, Minn (See Adv. on Page 5)

O. & M. Seed Co. Green Springs, Ohio (See Adv. on Page 115) Page Seed Co.
Greene, N. Y.
(See Adv. on Page 57)
Pedrick & Sons, Geo. R.
Pedricktown, N. J.
Peppard Seed Co.
Kansas City, Mo. Rice Seed Co., Jerome B. Cambridge, N. Y. (See Adv. on Page 45) Robinson Seed Co., J. C.
Waterloo, Neb.
(See Adv. on Page 99)
Rogers Bros. Seed Co.
Chicago, Ill.
(See Adv. on Rear Cover)
Russell-Heckle Seed Co.
Memphis, Tenn.
Scarlett & Co., Wm. G. Scarlett & Co., Wm. G.

Baltimore, Md.

(See Adv. on Page 40)

Schell, Inc., Walter S.

Harrisburg, Pa.

Simmons Seed Co.

Moorhead, Minn.

Sioux City Seed Co. Moornead, Minn.

Sioux City Seed Co.
Sioux City, Iowa
(See Adv. on Pages 73 and 95)

Skromme Seed Co.
Roland, Iowa

Springfield Seed Co.
Springfield, Mo.

Standard Seed Co.
Des Moines, Iowa

Steele, Briggs Seed Co., Ltd. Steele, Briggs Seed Co., Ltd.
Toronto, Canada
(See Adv. on Page 35)
Sun-Field Seed Service
Chicago, Ill. Vance Bros.
Tillsonburg, Ontario, Canada
Vermillion Seed Co.
Vermillion, S. D.
Western Seed & Irrigation Co.
Fremont, Neb.
Wood & Sons, T. W.
Richmond, Va. Woodruff & Sons, F. H. Milford, Conn. (See Adv. on Front Cover)
Woodruff & Sons, S. D.
Orange, Conn.
Zangger, W. O. (Sweet Corn)
North Loup, Nebr. TOBACCO SEED

Snapp & Sons, J. P. Limestone, Tenn. (See Adv. on Page 93)

## SWEET Improved CORN Strains—Minnesota Grown

No better quality anywhere. Our strains suitable for the most critical trade. Grown where Stewart's disease is unknown.

We offer, subject to previous sale, for prompt shipment or contract—

New "Min-Hybrids" — (Minn. Exp. Sta. Hybrids)

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Oregon Evergreen

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#### TREE SEEDS

Aggeler & Musser Seed Co.
Los Angeles, Calif.
Albany Seed Co.
Albany, Ore.
(See Adv. on Page 41)

Ansaloni, Arturo Ansaloni, Arturo
Bologna, Italy
Colorado Seed Co.
Denver, Colo.
Ellis, F. M.
Griffin, Ga.
Grunwald, A.
Wiener-Neustadt, Austria
Herbst Brothers

Herbst Brothers
(Agts. for T. Sakata & Co., Yokohama.

Japan)
New York City
(See Adv. on Pages 73 and 131)
Katzenstein & Co., Otto
Atlanta, Ga.

Atlanta, Ga.

Loewith, Inc., Julius

New York City, N. Y.

(See Adv. on Page 63)

Manshu Nosan Shokai, Inc.

Dairen, So. Manchuria, China

Mitchell Bros. Nursery

Forest Hill, La.

Murphy A

Forest Hill, La.

Murphy, A.

Woy Woy, N. S. W., Australia

North Eastern Forestry Co.

Cheshire, Conn.

Rosebank Nursery Co.

Huntsville, Ala.

Schon, Ltd., Jacob S.

Bruenn, Czechoslovakia

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Shibuya. Tokyo, Japan

Yokohama Nursery Co., Ltd.,

New York, N. Y.

#### VEGETABLE ROOTS

Corneli Seed Co.

St. Louis, Mo. (See Adv. on Page 25)

Hyde Co., H. A.
Watsonville, Calif.
Lagomarsino & Sons, F.
Sacramento, Calif.
(See Adv. on Page 34)

Ledden, Orol Sewell, N. J. Pedrick & Sons, Geo. R. Pedricktown, N. J.

#### WILD RICE

Fleming, Ernest Bena, Minn. MacGregor-Dennerly Co.
Aitkin, Minn.
Minnesota Wild Rice Co.
La Porte, Minn.

Terrell's Aquatic Farm Oshkosh, Wis.

#### **BROKERS**

Appel Commission Co., C. H.

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Crawford, Keen & Co.
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Dreyfus, Paul
Paris, France

Dunn, Arthur G.
New York City, N. Y.

Gauvreau Paul F.

Gauvreau, Paul F.
Quebec City, Canada
German, Gale T.
New York, N. Y.

Herbst Bros.

New York, N. Y.

(See Adv. on Pages 73 and 131)
Lecourt, Rene
Paris, France

Locchner & Co., Inc. New York, N. Y. (See Adv. on Page 83)

Loewith, Inc., Julius
New York City, N. Y.
(See Adv. on Page 63)
McCarty Co., The J. A.
Evansville, Ind.

McHutchison & Co.

New York, N. Y. (See Adv. on Page 161)

Mason, R. E. San Francisco, Calif.

Meier, J. G.

Salina, Kans. (See Adv. on Page 111)

Muller & Slaughter
Laredo, Tex.
Pincus, J. W.
New York, N. Y.
Radwaner Seed Co., I. L.
New York, N. Y.
(See Adv. on Page 63)

Scott, T. Maurice St. Louis, Mo. (See Adv. on Page 61)

Southern Brokerage Co. ers, Onion Sets) Memphis, Tenn. Sperco & Son, C. J. New York, N. Y. (Seeds, Fertiliz-

#### FORWARDING AGENTS

Furness, Withy & Co., Ltd. New York City, N. Y.

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McHutchison & Co.

New York, N. Y.

(See Adv. on Page Meadows & Co., Thos.

New York City, N. Y.

Pitt & Scott New York, N. Y.

Ravaud, A. Paris, France

#### SEED COMMISSION FIRMS

American Seed Co. Detroit, Mich.

Appel Commission Co., C. H. St. Louis, Mo.

Flower Co., S. W. Toledo, Ohio

Loewith, Inc., Julius
New York City, N. Y.
(See Adv. on Page 63)

Picker & Beardsley Comm. Co. St. Louis, Mo. Pitt & Scott, Inc. New York City, N. Y.

Radwaner Seed Co., I. L. New York City, N. Y. (See Adv. on Page 63)

Scott, T. Maurice
St. Louis, Mo.
(See Adv. on Page 61)

Sevin-Vincent Seed Co. San Francisco, Calif.

Southworth & Co. Toledo, Ohio

#### SEED STORAGE AND DISTRIBUTION

Blue Line Storage Co. Des Moines, Iowa

Crooks Terminal Warehouse Chicago, Ill. Currier-Lee Warehouse Co. Chicago, Ill.

Binyon-O'Keefe Fireproof Storage Co. Ft. Worth, Texas

Bush Terminal Co. New York City, N. Y.

General Storage Co. Cleveland, Ohio Sevin-Vincent Seed Co. San Francisco, Calif.

Merchandise and Seedsmen's Supplies Index-Pages 4 and 6

#### APPROXIMATE QUANTITY TO SOW PER ACRE

Kind of Seed Per Acre	Emmer or Speltz80 to 100 pounds
Alfalfa15 to 20 pounds	Flax30 to 35 pounds
Barley	Hemp40 to 50 pounds
Beans—Soy30 to 35 pounds	Millet 35 to 45 lbs., broadcast
Beans—Table Bush. 45 to 50 pounds	10 to 15 lbs.—drilled
Beans—Velvet50 to 65 pounds	Oats100 pounds
Beets—Sugar5 to 6 pounds	Peanuts 30 to 35 pounds
Buckwheat75 pounds, broadcast	Peas, Canada 75 to 80 pounds
20 to 30 lbs., drilled	Peas, Garden 60 to 120 pounds
Clover, Alsike10 to 12 pounds	Potatoes, Irish 850 to 1,000 pounds
Clover, Burr 15 to 20 pounds	Potatoes, Sweet Approx. 10,000 plants
Clover, Crimson 12 to 20 pounds	Rape, Dwarf Essex. 12 to 15 lbs. broadcast
Clover, Red12 to 15 pounds	4 to 8 lbs., drilled
Clover, Mammoth12 to 15 pounds	Rye70 to 80 pounds.
Clover, Sweet10 to 15 pounds	Sorghum 30 to 35 pounds.
Clover, White 8 to 10 pounds	Sunflower 4 to 6 lbs. (drilled)
Corn, Field10 to 15 pounds	Vetch, Common 60 to 75 pounds
Corn, Sweet 10 to 15 pounds	Vetch, Hairy 25 to 30 pounds
Cotton20 to 30 lbs., drilled	Wheat 100 to 120 pounds
,	E Comment

## QUANTITIES OF VEGETABLE SEED TO SOW A ROW

The quantity of vegetable seed required to produce a given number of plants:

		plants:		
Q	Quantity to Sow	prantes.		Approx.
Kind of Seed	a Single Row of 100 Yards			No. of
		Variety	Oz.	Plants
Asparagus		•		
Beans, Bush		Artichoke	l	500
Beans, Lima	3 lb.	Asparagus (Seed)		800
Beans, Pole	3 1b.	Beans, Bush	1	150
Beet		Beans, Pole	4	125
Broccoli		Beets	1	1,800
Brussels Sprouts		Broccoli	Ţ	2,000
Cabbage		Brussel's Sprouts	l	2,000
Carrot		Cabbage	1	2,000
Cauliflower		Carrots	l	3,000
		Cauliflower	l	2,000
Celery		Celery	1	5,000
Collards		Chervil	1	1,500
Corn		Chicory	1	1,400
Cress		Collards	1	4,000
Cucumber		Corn	1	175
Dandelion		Corn Salad	1	1,600
Egg Plant	1 oz.	Cucumber	1	1,000
Endive	$\dots$ 2 oz.	Egg. Plant	1	2,000
Kohl-rabi		Endive	1	1,250
Leek '	3 oz.	Kale	1	3,000
Lettuce		Kohl Rabi	l	3,000
Melon, Musk		Leek	1	1,600
Melon, Water		Lettuce	1	8,000
Mustard		Muskmelon	1	1,600
Okra		Mustard	1	2,500
		Okra	1	600
Onion (for large bulbs)	$\frac{2}{9}$	Onion	1	1,250
Onion (for sets)		Parsley	1	1,400
Parsley		Parsnip	1	750
Parsnip		Peas	l	125
Peas		Pepper	1	1,500
Pepper		Pumpkin	1	125
Pumpkin		Radish	1	1,000
Radish	6 oz.	Rhubarb	1	700
Rhubarb	$\dots$ 3 oz.	Salsify	1	500
Salsify	$\dots$ 3 oz.	Spinach	1	1,100
Spinach	6 oz.	Squash	1	500
Squash		Tomato	1	2,000
Tomato		Turnip	î	4,000
Turnip		Watermelon	1	500
-Е			1	500

## :: IT PAYS TO SPRAY ::

DAMAGE DONE by insects and fungus diseases amounts to many millions of dollars annually. In order to combat them, manufacturers of insecticides and fungicides have scientifically prepared many sprays and dusts which have been found effective in the control and eradication of these pests and diseases.

These products are sold by the manufacturers under various trade names. Retail seedsmen have found it most profitable to have them for sale. Each year the demand for insecticides and fungicides is increasing.

In order to make it easier for the users of this GUIDE to ascertain what insecticide or fungicide to use for the numerous pests that infest growing crops, the following table has been arranged giving the names of some of the products which have been found effective.

Acme White Lead & Color Works.
Detroit, Mich.
"Acme All Round Spray"
"Acme Aphis Spray"
"Acme Arsenate of Lead"
"Acme Bean Beetle Dust"
"Acme Bordeaux Mixture"
"Acme Calcium Arsenate"
"Acme Dry Lime Sulphur"
"Acme Garden Guard"
"Acme London Purple"
"Acme Paris Green"
"Acme Spray Soap"
Chipman Chemical Company.
Bound Brook, N. J.
"Calgreen"
"Cubor"
"Cubor"
"Cubor Dust"

General Chemical Co.,
New York, N. Y.
"O. B. Arsenate of Lead"
"O. B. Bordeaux Dust"
"O. B. Calcium Arsenate"
"O. B. Dritomic Sulphur"
"O. B. Nicotine Sulphur"
"O. B. Nicotine Sulphate"
"O. B. X-13"

James Good, Inc.,
Philadelphia, Pa.
"Keystone Fish Oil Spray Soaps
No. 1, 2 and 3"

Goulard & Olena, Inc.,
New York, N. Y.
"G & O Bordeaux Mixture"
"G & O Copper Lime Dust"

"G & O Dormant Miscible Oil Spray"
"G & O Nicotine Dust"
"G & O Plant Spray"
"G & O 142"
"G & O 180"
"GO-4"
Grasselli Chemical Co Grasselli Chemical Co., Cleveland, Ohio 'Dutox' "Floragard" "Grasselli Arsenate of Lead" "Kleenup Oil" "Loro "Manganar Rose Dust" "Nu Rexform "Sulforon" Hammond Paint & Chemical Co.. Beacon, N. Y.
"Do-All Green Dust"
"Grape & Rose Dust" "Nicotine Soap"
"Slug Shot"
"Thrip Juice" Hitox Products Corp., New York, N. Y. "Hitox" The Kalo Company, Quincy, Ill. "Kalo" "Kalo Spray" "Kaloil" "Kalite" "Killal" McCormick & Co., Baltimore, Md. "Red Arrow

McLaughlin Gormley King Co., Minneapolis, Minn. "Ever Green" "Selocide" Mechling Bros. Chemical Co., Camden, N. J. "Hydroxcide" "Mechling's Scale Oil" "Pyrote" S. B. Penick & Co., New York, N. Y. "Deridust" "Derispray" "Foliafume" Morris B. Reade, Inc., Belleville, N. J. "Agri-Pax" Rohm & Haas Co., Philadelphia, Pa. "Cuprocide" "Lethane 420" Tobacco By-Products & Chemical Corporation, Louisville, Ky. 'Blackleaf 40'' "Nicofume Liquid" Andrew Wilson, Inc., Springfield, N. J. "Awinc"

"Fung-O"
"O. K. Plant Spray"
"Scale-O"

"Tri-Tox-Cide"

#### Spraying Table

	Disease or Insect	What to Use
	Codling Moth	Acme Arsenate of Lead; Agri-Pax; Dutox; GO-4; Grasselli Arsenate of Lead; Kalo; Nu Rexform; Slug Shot
	San Jose Scale	Acme Dry Lime Sulphur; G & O Dormant Miscible Oil; Keystone Fish Oil Soap No. 1; Kleenup Oil; Lethane 420; Meehling's Scale Oil; O. B. Lime Sulphur; Scale-O.
Apple and Scab		Acme Dry Lime Sulphur; Cuproeide; G & O Dormant Mis. Oil; Kaloil.
	Wooly Aphis	Acme Aphis Spray; Acme Dry Lime Sulphur; Acme Spray Soap; Agri-Pax; Awinc; Black Leaf 40; Cubor; Do-All Green Dust; Foliafume; G & O Plant Spray; Hitox; Kalo; Lethane 420; Loro; O. B. Nicotine Sulphate; Pyrote; Thrip Juice.
Asparagus	Asparagus Beetle	Acme Garden Guard; Acme London Purple; Acme Paris Green; Agri-Pax; Awinc; Cubor; Deridust; Derispray; Dutox; GO-4; Hitox; Kalite; Killal; O. B. Arsenate of Lead; Pyrote; Red Arrow.
Aster	Aphis	Acme Aphis Spray; Acme All Round Spray; Agri-Pax; Awinc; Black Leaf 40; Do-All Green Dust; Ever Green; Foliafume; GO-4; Hitox; Kaloil; Keystone Fish Oil Soap No. 1; Killal; Lethanc 420; Loro; O. B. X-13; Pyrote; Red Arrow; Thrip Juice.
	Aster Beetle	Acme All Round Spray; Aeme Aphis Spray; Aeme Garden Guard; Agri-Pax; Awinc; Cubor; Dutox; Ever Green; Foliafume; GO-4; Hitox; Kalite; Killal; O. B. Arsenate of Lead; Pyrote; Red Arrow; Slug Shot.
Beans	Aphis	Aeme Aphis Spray; Acme Spray Soap; Agri-Pax; Awine; Black Leaf 40; Cubor; Deridust; Derispray Do-All Green Dust; Ever Green; GO-4; G & O Plant Spray; Hitox; Kaloil; Killal; Lethane 420; Loro; O. B. Nicotine Sulphate; Pyrote; Red Arrow; Thrip Juice.
	Mexican Bean Beetle	Acme Bean Beetle Dust; Agri-Pax; Awinc; Cubor; Deridust; Derispray; Dutox; Ever Green; G & O 1 & 2; Hitox; Kalite; Killal; O. B. Bordeaux Dust; Pyrote; Red Arrow; Slug Shot.

# HUDSON SPRAYERS—GARDEN TOOLS POULTRY SUPPLIES are sold the world over!

They are improved and developed to the highest standard of quality. Those who sell the three HUDSON LINES are assured of getting up-to-the-minute merchandise, tested and retested under practical conditions.

The completeness of these three lines reduces your buying problem to a single source of supply and your immediate request for information and special seed dealer proposition will prove of great value to you.

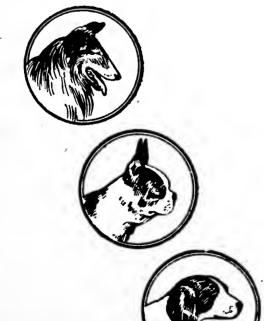
#### H. D. HUDSON MANUFACTURING CO.

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NEW YORK CITY OMAHA MINNEAPOLIS KANSAS CITY CHICAGO, ILL.

PHILADELPHIA
SAN FRANCISCO

## INCREASE YOUR SALES WITH PETS & SUPPLIES



LET SEED WORLD PUT YOU IN TOUCH WITH THE PROPER ONES TO SUPPLY YOU WITH QUALITY ITEMS THAT SELL.

FOR THIS SERVICE JUST WRITE TO THE

PET DEPARTMENT SEED WORLD

325 W. Huron St., » Chicago

## Spraying Table (Continued)

	Disease or Insect	What to Use
Cabbage Cauliflower Brussels Sprouts	Cabbage Worm	Acme Aphis Spray; Acme Garden Guard; Agri-Pax; Awinc; Cubor; Cubor Dust; Deridust; Derispray; Dutox; Ever Green; GO-4; G & O Copper Lime Dust; Hitox; Kalo Spray; Killal; O. B. Calcium Arsenate; Pyrote; Slug Shot.
Thrips		Acme All Round Spray; Acme Aphis Spray; Agri-Pax; Awinc; Black Leaf 40; Cubor; Ever Green; Foliafume; GO-4; Hitox; Kaloil; Keystone Fish Oil Soap No. 1; Killal; Lethane 420; O. B. X-13; Pyrote; Red Arrow; Thrip Juice.
Carnation -	Aphis	Acme All Round Spray; Acme Aphis Spray; Agri-Pax; Awinc; Black Leaf 40; Cubor; Do-All Green Dust; Ever Green; Foliafume; G & O Plant Spray; Hitox; Kaloil; Killal; Lethane 420; Loro; O. B. X-13; Pyrote; Red Arrow; Thrip Juice.
	Rot	Aeme Dry Lime Sulphur; G & O Dormant Mise. Oil; O. B. Dritomic Sulphate; Sulforon.
Cherry	Curculio	Acme Arsenate of Lead; GO-4; Kalo Spray; O. B. Arsenate of Lead.
Aphis		Acme All Round Spray; Acme Aphis Spray; Agri-Pax; Black Leaf 40; Cubor; Do-All Green Dust; Ever Green; Foliafume; G & O Plant Spray; Hitox; Kaloil; Keystone Fish Oil Soap No. 1; Killal; Lethane 420; Loro; Nicofume Liquid; O. B. X-13; O. K. Plant Spray; Pyrote; Red Arrow; Thrip Juice.
Chrysanthe- mum	Thrips	Acme All Round Spray; Acme Aphis Spray; Agri-Pax; Awinc; Black Leaf 40; Cubor; Cubor Dust; Ever Green; Foliafume; G & O Plant Spray; Hitox; Kaloil; Keystone Fish Oil Soap No. 1; Killal; Lethane 420; Nicofume Liquid; O. B. X-13; Red Arrow; Thrip Juice.
	Striped Beetle	Acme Garden Guard; Agri-Pax; Awinc; Cubor; Deridust; Derispray; Dutox; Ever Green, GO-4; Hitox; Kalite; Killal; Ö. B. Bordeaux Dust; Pyrote; Red Arrow; Slug Shot.
Cucumber	Aphis	Acme All Round Spray; Acme Aphis Spray; Agri-Pax; Awinc; Black Leaf 40; Cubor; Deridust; Derispray; Do-All Green Dust; Ever Green; GO-4; Hitox; Kaloil; Killal; Lethane 420; Lcro; O. B. Nicotine Sulphate; Pyrote; Red Arrow; Thrip Juice.
	San Jose Scale	Acme Dry Lime Sulphur; G & O Dormant Misc. Oil; Keystone Fish Oil Soap No. 1; Lethane 420; O. B. Lime Sulphur Solution; Scale-O.
Currant	Worm	Acme Aphis Spray; Acme Garden Guard; Agri-Pax; Cubor; Deridust; Ever Green; GO-4; Hitox; Kalite; Killal; O. K. Plant Spray; Pyrote; Slug Shot.
	Aphis	Acme All Round Spray; Acme Aphis Spray; Agri-Pax; Awinc; Black Leaf 40; Cubor; Do-All Green Dust; Ever Green; Foliafume; GO-4; Hitox; Kaloil; Keystone Fish Oil Soap No. 1; Killal; Lethane 420; Loro; O. B. X-13; Pyrote; Red Arrow; Thrip Juice.
Dahlia	Tarnished Plant Bug	Agri-Pax; Awine; Cubor; Ever Green, Foliafume; GO-4; Kaloil; Killal; O. B. X-13; Red Arrow; Slug Shot.
	Thrips	Acme All Round Spray; Acme Aphis Spray; Agri-Pax; Awinc; Black Leaf 40; Cubor; Cubor Dust; Ever Green; Foliafume; Hitox; G & O Plant Spray; Kaloil; Keystone Fish Oil Soap No. 1; Killal; Lethane 420; O. B. X-13; Red Arrow; Thrip Juice.
	Mealy Bug	Lethane 420.
	White Fly	Agri-Pax; Awinc; Cubor; Ever Green; Foliafume; G & O Plant Spray; Hitox; Kaloil; Lethane 420; O. B. X-13; Pyrote; Red Arrow; Thrip Juice.
Ferns	Aphis	Agri-Pax; Black Leaf 40; Cubor; Do-All Green Dust; Ever Green; Foliafume; Hitox; G & O Plant Spray; Kalcil; Keystone Fish Oil Soap No. 1; Killal; Lethane 420; Loro; Nicofume Liquid; O. B. X-13; O. K. Plant Spray; Pyrote; Red Arrow; Thrip Juice.
	Mildew	Aeme Aphis Spray; Aeme Bordeaux Mixture; Foliafume; Fung-O; G & O Bordeaux Mixture; Grape Rose Dust.
Gooseberry	Worm	Acme Aphis Spray; Acme Garden Guard: Agri-Pax; Awine; Cubor; Ever Green; Foliafume; GO-4 Hitox; Kalite; Killal; Pyrote; Slug Shot.
Nasturtium	Aphis	Acme All Round Spray; Acme Aphis Spray; Agri-Pax; Black Leaf 40; Cubor; Do-All Green Dust Ever Green; Foliafume; G & O Plant Spray; Hitox; Kaloil; Keystone Fish Oil Soap No. 1; Killal Lethane 420; Loro; O. B. X-13; O. K. Plant Spray; Pyrote; Red Arrow; Thrip Juice.
	Rot	Acme Dry Lime Sulphur; O. B. Dritomic Sulphur; Sulforon.
Plum	Curculio	Acme Arsenate of Lead; O. B. Arsenate of Lead.
	Early Blight	Acme Bordeaux Mixture; G & O Bordeaux Mixture; Hydroxeide.
Potato	Late Blight	Acme Bordeaux Mixture; G & O Bordeaux Mixture; Hydroxeide.
	Potato Bugs	Acme Calcium Arsenate; Acme London Purple; Acme Paris Green; Agri-Pax; Calgreen; Deridust Derispray; Dutox; G & O 180; Hitox; Hydroxcide; Kalite; Kalospray; O. B. Calcium Arsenate Pyrote; Slug Shot.
	Red Spider	Agri-Pax; Awine; Cubor; Floragard; Foliafume; G & O Plant Spray; Hitox; Kaloil; Killal; Lethan- 420; Manganar Rose Dust; O. B. Dritomic Sulphur; Pyrote; Red Arrow; Selocide; Thrip Juice
	Aphis	Acme All Round Spray; Acme Aphis Spray; Agri-Pax; Black Leaf 40; Cubor; Do-All Green Dust Ever Green; Foliafume; G & O Plant Spray; Hitox; Kaloil; Keystone Fish Oil Soap No. 1; Killal Lethane 420; Loro; O. B. X-13; O. K. Plant Spray; Pyrote; Red Arrow; Rose Dust; Thrip Juice
Roses	Leaf Roller	Agri-Pax; Awinc; Cubor; Foliafume; GO-4; Hitox; Kalospray; Kleenup Oil; Red Arrow; Thrip Juice
	Beetles	Aeme All Round Spray; Aeme Aphis Spray; Aeme Garden Guard; Agri-Pax; Awine; Cubor; Dutox

#### Spraying Table (Continued)

	DiseaseorInsect	What to Use
Sweet Pea	Aphis	Aeme All Round Spray; Aeme Aphis Spray; Agri-Pax; Black Leaf 40; Cubor; Do-All Green Dust; Ever Green; Foliafume; G & O Plant Spray; Hitox; Kaloil; Keystone Fish Oil Soap No. 1; Killal; Lethane 420; Loro; Nicofume Liquid; O. B. X-13; O. K. Plant Spray; Pyrote; Red Arrow; Thrip Juice.
	Anthraenose	Aeme Bordeaux Mixture; Fung-O; G & O Bordeaux Mixture; Killal; Thrip Juice.
Tomato	Leaf Spot	Aeme Bordeaux Mixture; Fung-O; G & O Bordeaux Mixture.
Tom	Tomato Worm	Kalospray; Killal.
	Anthracnose	Aeme Bordeaux Mixture; Fung-O; G & O Bordeaux Mixture; Thrip Juice.
Watermelon and Muskmelon	Aphis.	Acıne Aphis Spray; Acme Garden Guard; Agri-Pax; Awine; Black Leaf 40; Cubor; Deridust; Derispray; Do-All Green Dust; Ever Green; G & O Nicotine Dust; Hitox; Kaloil; Keystone Fish Oil Soap No. 1; Killal; Loro; O. B. X-13; Pyrote; Red Arrow; Thrip Juice.
	Beetles	Acme Garden Guard; Agri-Pax; Awinc; Cubor; Deridust; Derispray; Dutox; Ever Green; G & O 180 G & O Copper Lime Dust; Hitox; Kalite; Kalospray; Killal; O. B. Bordeaux Dust; Pyrote; Slug Shot.

## MECHLINGS

## **Insecticide Specialties**



Reg. U. S. Pat. Off.

outstanding non-poisonous Pyrethrum-Rotenone Spray. **Powerful** 

Here are a few more of our specialties which you can sell profitably:

Bacterial Sulphur (we are sole manufac-

turers.)
Hydroxcide, combined Bordeaux-Arsenical.

Mexican Bean Beetle Destroyer.
Rotenone-Sulphur Dusting Mixture.
Scale Oil for Fruits and Ornamental Trees.
Lanton—the page control for Trees. Japtox—the new control for Japanese Beetles.

We invite inquiries, which will have careful attention.

## BROS CHEMICAL CO.

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Est. 1869

WE combine more Pyrethrum and Derris extracts—with a "noburn" spreader—to better control

RED SPIDER, MEALY BUG, THRIPS, HOPPERS, MIDGE, APHIS, and other insects.

Non-poisonous

Through your dealer \$12.00 a gallon

S. B. PENICK & COMPANY

132 Nassau St. **NEW YORK** 



#### THIS

To locate sources of seed supplies (page 56).

To locate sources of merchandise supplies (page 122).

For information on seed prices (pages 26, 28, 30, 32, 35 and 92).

For tariff information (page 38).

For information on seed verification service (page 42).

For foreign seed import information (pages 36 and 37).

For trade marks and slogans (pages 50, 51, 52, 53 and 54).

For latest spraying information (pages 118, 120 and 121).

For other seed and plant information.

#### SIDE LINE MERCHANDISE FERTILIZERS AND SPREADERS

#### **FERTILIZERS**

Adco Co.
Carlisle, Pa.
American Agricultural Chem. Co.
New York, N. Y.
American Bulb Co.
Chicago. Ill.

American Bulb Co.
Chicago, III.
(See Adv. on Page 111)
American Limestone Co.
Knoxville, Tenn.
Armour Fertilizer Wks.
Atlanta, Ga.
Atkins & Durbrow
New York, N. Y.
(See Adv. on Page 129)
Atlanta Chemical Co.
Atlanta, Ga.

Atlanta, Ga.

Atlanta, Ga.

Balfour, Guthrie & Co.
San Francisco, Cal.

Barrett Co., The
New York City, N. Y.

Baugh & Sons Co.
Baltimore, Md.

Bon Arbor Chemical Co.
Paterson, N. J.

Bramley & Son
Cleveland, Ohio
Carus Chemical Co.
La Salle, Ill.

Consumers Import Co.
New York, N. Y.

Darling & Co.
Chicago, Ill.

Federal Chemical Co.
Columbia, Tenn.

Fertilawn Co.

Fertilawn Co.

Hamilton, N. Y.

(See Adv. on Page 31)

Flower City Plant Food Co., Inc.

Pittsford, N. Y.

Fujiya Fertilizer & Seed Co.

Moneta, Calif.

Conden Supplies (1929) Ltd.

Garden Supplies (1929), Ltd. Liverpool, England

Goulard & Olena, Inc.
New York, N. Y.
(See Adv. on Page 145)
Grasselli Chemical Co., The

Cleveland, Ohio
(See Adv. on Second Cover)

Heil Company

Milwaukee, Wis.

Hyper-Humus Co.
Philadelphia, Pa.
(See Adv. on Page 123)

International Agricultural Corp.
New York, N. Y.

Natural Guano Co.
Aurora. III.

Anrora, III.

(See Adv. below)

Ober & Sons Co., G.

Baltimore, Md.

Pacific Manure & Fertilizer Co.

San Francisco, Calif.

Plantabbs Corp.

Baltimore, Md.
Premier Poultry Manure Co.

Chicago, Ill.

Pulverized Manure Co.

Chicago, III.

(See Adv. on Page 123)

Royster Guano Co., F. S.

Norfolk, Va.

Ruhm Phosphate & Chemical Co.

Mt. Pleasant, Tenn.

Sewerage Commission

Milwaukee, Wis.

Smith Agricultural Chemical Co.

Columbus, Ohio Smith Agricultural Chemical Co.
Columbus, Ohio
(See Adv. on Page 123)
Stadler Products Co.
Cleveland, Ohio
Stimuplant Laboratories, Inc.
Long Island City, N. Y.
(See Adv. on Page 135)
Swift & Co.
Chicago Ill

Chicago, Ill.
Synthetic Nitrogen Products Corp.
New York City, N. Y.

Tennessee Corp.
New York, N. Y.
Virginia-Carolina Chemical Corp.
Richmond, Va.

Williamson, Inc., Garfield
New York, N. Y.
(See Adv. on Page 92)
Wilson, Inc., Andrew
Springfield, N. J.
(See Adv. on Page 145)
Wilson & Co

Wilson & Co.
Chicago, Ill.
York Chemical Works
York, Pa.

FERTILIZER PLACERS

Stauffer Machine Works Honey Brook, Pa.

FERTILIZER SPRAYERS

Alliance Mfg. Co. Alliance, Ohio

Electric Sprayit Co.
South Bend, Ind.
Gatchet, Inc., F. L.
Seattle, Wash.
Vex Sales Corp.
Chicago, Ill.

FERTILIZER SPREADERS

Allen & Co., Inc., S. L.
Philadelphia, Pa.
Baier Bros. Mfg. Co.
Cissna Park, Ill.

Campbell-Hausfeld Co., The

Page 147)

Harrison, Ohio
(See Adv. on Pa
Cyclone Seeder Co., The
Urbana, Ind.

Ellis-Keystone Agricultural Works
Pottstown, Pa.

(See Adv. on Page 125)
Emerson-Brantingham Implement Co.
Rockford, Ill.

Hoeft & Co.

North Chicago, Ill. (See Adv. on Page 155)

PLANT

Hyper-Humus Co.
Philadelphia, Pa.
(See Adv. on Page 123)

#### Sheep's Head Pulverized Sheep Manure

LEADING

A concentrated organic plant food, sterilized of weed seeds, for use where quick, active results are desired. Packed 5 lbs., 10, 25, 50, 100 pounds to the bag.



#### Sheep's Head Sterilized Cattle Manure

For plants requiring a loose, cool soil reclaimant; especially desirable for flowers, such as roses, dahlias, tulips, house plants. Sterilized of weed seeds. Organic. Odorless. Packed 100 pounds to the bag.

These two products are all the plant foods you need to build yourself a thriving seed business—in store or catalog. Send us your requirements and we will furnish copy, layout and cuts for catalog or newspaper use. Ask for our dealer proposition

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NATURAL

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C O M. P AN Aurora, Illinois

FOODS

Merchandise and Seedsmen's Supplies Index-Pages 4 and 6



#### Nature's Soil Builder

Improves Your Customer's Soil Dealers everywhere agree that HYPER-HUMUS is a profitable item. Write for our proposition to dealers.

We will be glad to send you a sample of HYPER-HUMUS and a complete set of bulletins for its use . . . and tell you how you can make it one of the most profitable items in your store sales.

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The popular general purpose fertilizer: for lawns, flowers, vegetables, shrubs and trees. Contains a complete plant food diet. Easy to stock, easy to sell, easy to use. The choice of thousands of professional and amateur growers. Convenient packages, 1 lb. to 100 lbs. Liberal discount.



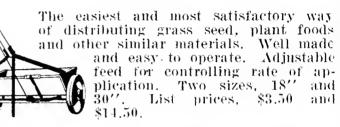


#### WEDO

A special fertilizer for lawns only. Feeds grass; fights weeds. Simple to apply, economical to use. Highly recommended by those in charge of parks, golf greens and fine lawns everywhere.

A consistent repeat seller. Convenient packages, 10 lbs. to 100 lbs. Liberal trade discount.

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Wizard Manures are pure, highly concentrated and absolutely weedless. Attractively packed in paper lined bags in many sizes. These quality products have served the trade for 27 years. A free sales service brings in orders and makes Wizard easy to sell.

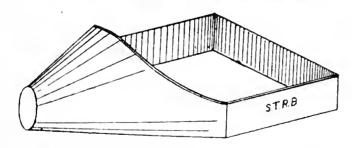
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EXCHANGE BLDG.

UNION STOCK YARDS CHICAGO, ILLINOIS

The Pulverized Manure Co.,

## WIZARD SHEEP AND COW MANUF



### SEED AND GRAIN SAMPLE PANS

For containing grain or seed after sampling. Advantageous in making analyses and for display. Seamless.

Wellsville steel—dark blue and nonglaring.

No.  $31-12\times16\times2$  in. -3 qts. wheat capacity. Price each, \$1.50; half dozen, \$8.50.

No.  $32-8\frac{1}{2}\times12\times1\frac{1}{2}$  in.  $-1\frac{1}{2}$  qts. wheat capacity. Price each, \$1.25; half dozen, \$7.00.

No. 33—Same as No. 32, Aluminum, \$1.50.

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#### FERTILIZERS AND SPREADERS—Concluded

Fertilizer Spreaders—Continued

New Beeman Tractor Co., The Minneapolis, Minn.
Root Mfg. Co.
Cleveland, Ohio
Salem Tool Co.
Salem Ohio

Salem, Ohio

(See Adv. on Page 125) Schuh Bros. Co.

Indianapolis, Ind.

Smith Agri. Chem. Co.

Columbus, Ohio
(See Adv. on Page 123)
Thompson & Sons, O. E.

Ypsilanti, Mich. (See Adv. on Page 139)

Wilson, Inc., Andrew Springfield, N. J. (See Adv. on Page 145)

HUMUS

Florida Humus Co.

Zellwood, Fla.

Hyper-Humus Co.

Philadelphia, Pa.
(See Adv. on Page 123)

Natural Humus Co.

Philadelphia, Pa.

Wilson, Inc., Andrew Springfield, N. J. (See Adv. on Page 145)

#### GARDEN AND FIELD IMPLEMENTS AND SUPPLIES

#### CELERY BLEACHERS

Ball-Biddle Co. Riverton, N. J. **Disbrow Mfg. Co.** 

Newark, N. J.

(See Adv. on Page 174)

#### CULTIVATORS

Allen & Co., Inc., S. L.
Philadelphia, Pa.
American Fork & Hoe Co.
Cleveland, Ohio

Bacon Mfg. Co.
Pontiac, Mich.
Brinly Hardy Co.
Louisville, Ky.
Brown Mfg. Co.
Zanesville, Ohio
Buffum Tool Co.
Louisiana, Mo.
Case Co. J. I.

Case Co., J. I. Racine, Wis.

Racine, Wis.

Ellis-Keystone Agricultural Works
Pottstown. Pa.

(See Adv. on Page 125)

Emerson-Brantingham Implement Co.
Rockford, Ill.

Empire Plow Co.
Cleveland, Ohio

Gardey, Inc.

Gardex, Inc.

Gardex, Inc.

Michigan City, Ind.

(See Adv. on Page 125)

Geyer Mfg. Co.

Rock Falls, Ill.

Gilson Co., J. E.

Port Washington, Wis.

Gravely Motor Plow & Cultivator Co.

Dunbar, W. Va.

Hall Mfg. Co.

Hall Mfg. Co. Cedar Rapids, Iowa

Hayes Pump & Planter Co. Galva, Ill.

Hudson Mfg. Co., H. D.
Chicago, Ill.
(See Adv. on Page 119)
New Beeman Tractor Co., The

Minneapolis, Minn.
Norcross & Sons, C. S.
Bushnell, Ill.

Ohio Cultivator Co.

Bellevue, Ohio
Pioneer Mfg. Co.

West Allis, Milwaukee, Wis.

Progressive Machinery Co.

Minneapolis, Minn. Schaible Mfg. Co. Elyria, Ohio Scott Co., I. W.

Scott Co., I. W.
Pittsburgh, Pa.
Utilitor Co., The
Dayton, Ohio
Wonder Mfg. Co.
Fort Worth, Texas

DIBBLES

Johnson, Inc., Wm.
Newark, N. J.
Union Fork & Hoe Co.

Columbus, Ohio

(See Adv. on Page 137)

#### DRILLS

Allen & Co., Inc., S. L.
Philadelphia, Pa.
American Fork & Hoe Co.
Cleveland, Ohio
Bacon Mfg. Co.
Pontiac, Mich.
Benthall Machine Co.
Suffolk, Va.
Brinly Hardy Co.
Louisville, Ky.
Crown Mfg. Co.
Phelps, N. Y.
Ellis-Keystone Agricultura

Ellis-Keystone Agricultural Works Pottstown, Pa.

(See Adv. on Page 125)
Geyer Mfg. Co.
Rock Falls, Ill.
Hayes Pump & Planter Co.
Galva, Ill.
Hudson Mfg. Co., H. D.

Chicago, III.

(See Adv. on Page 119)

New Beeman Tractor Co., The

Minneapolis, Minn.

Progressive Machinery Co.

Minneapolis, Minn.

#### FANNING MILLS

Ferrell & Co., A. T.
Saginaw, Mich.
Howes Co., Inc., S.
Silver Creek, N. Y.
(See Adv. on Page 167)
Owens Co., J. L.
Minneapolis, Minn.
Sidney Grain Machinery Co. Sidney Grain Machinery Co.

Sidney, Ohio

GARDEN LINE REELS Johnson, Inc., Wm. Newark, N. J.

#### GARDEN STICKS

Root Co., A. I. Medina, Ohio (See Adv. on Page 161)

GARDEN TRACTORS

Allen & Co., Inc., S. L.
Philadelphia, Pa.
Gilson-Bolens Mfg. Co.
Port Washington, Wis.
Gravely Motor Plow & Cultivator Co.
Dunbar, W. Va.
Leroy Plow Co.
Leroy N Y.

Leroy, N. Y.
Monta Mower Sales Co.
Grand Rapids, Mich.

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in principle

EXTRAORDINARY
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#### GARDEN AND FIELD IMPLEMENTS AND SUPPLIES-Continued

Garden Tractors-Continued New Beeman Tractor Co., The Minneapolis, Minn.
Pioneer Mfg. Co.
West Allis, Milwaukee, Wis.
Shaw Mfg. Co.
Galesburg. Kans.
Standard Engine Co.
Minneapolis, Minn.
Utilitor Co., The
Dayton, Ohio

#### **GRAFTING WAX**

Clark & Son, Walter E.

Milford, Conn.

(See Adv. on Page 115)
Leonard & Son, A. M.

Piqua, Ohio
Pugsley & Morrison
Yuba City, Calif.

#### GRINDERS—HAND

Arcade Mfg. Co.
Freeport, Ill.
Brinly Hardy Co.
Louisville, Ky.
Hoeft & Co., Inc.
North Chicago, Ill.
(See Adv. on Page 155)
Letz Mfg. Co.

Letz Mfg. Co.
Crown Point, Ind.
Pratt Mfg. Co., Wm. E.
Joliet, Ill.

#### HARROWS

Henderson & Co., Peter New York, N. Y.

HOES

American Fork & Hoe Company Cleveland, Ohio C-K-R Co.

C-R-R CO.
Cleveland, Ohio
Ellis-Keystone Agricultural Works
Pottstown, Pa.
(See Adv. on Page 125)
Geyer Mfg. Co.
Rock Falls, Ill.
Gilson Co., J. E.
Port Washington, Wis.
Hall Mfg. Co.

Port Washington, Wis.
Hall Mfg. Co.
Cedar Rapids, Iowa
Hooper Co., Geo.
Memphis, Tenn.
Hudson Mfg. Co., H. D.
Chicago, III.
(See Adv. on Page 119)
Leonard & Son, A. M.
Piqua, Ohio
Piqua Handle Mfg. Co.
Piqua, Ohio
Reichard Mfg. Co., F. H.
Bangor, Pa.
Union Fork & Hoe Co.
Columbus, Ohio
(See Adv. on Page 137)
HORTICULTURAL TO

#### HORTICULTURAL TOOLS

HORTICULTURAL TOO
Allen & Co., Inc., S. L.
Philadelphia, Pa.
Alliance Mfg. Co., The
Alliance, Ohio
American Fork & Hoe Co.
Cleveland, Ohio
Bartlett Mfg. Co.
Detroit, Mich.
(See Adv. on Page 125)
Clyde Cutlery Co., The
Clyde, Ohio
C-K-R Co.
Cleveland, Ohio
Disston & Sons
Philadelphia, Pa.
Hardie Mfg. Co.

Philadelphia, Pa.
Hardie Mfg. Co.
Hudson, Mich.
Hudson Mfg. Co., H. D.
Chicago, III.
(See Adv. on Page 119)
Johnson, Inc., Wm.
Newark, N. J.
Leonard & Son, A. M.
Piqua, Ohio

New Beeman Tractor Co., The Minneapolis, Minn.
Peck, Stow & Wilcox Co.
Southington, Conn.
Union Fork & Hoe Co. Columbus, Ohio (See Adv. on Page 137)

#### KNIVES (ASPARAGUS)

Johnson, Inc., Wm. Newark, N. J.

#### PLANT MARKERS

Ideal Mfg. Co.
Des Moines, Iowa
S-W Supply Co.
Girard, Kansas (See Adv. on Page 139) Yoho & Hooker Youngstown, Ohio

#### PLANT PROTECTORS

Ball-Biddle Co. Riverton, N. J.
Calkins Machine Co.
Spokane. Wash.
Germain Seed & Plant Co. Los Angeles, Calif.

(See Adv. on Page 161)

Harris Mfg. Co., A. W.

Sleepy Eye, Minn.

Ideal Mfg. Co.

Des Moines, Iowa

Plant Protector Co.

Rochester, N. Y.

#### PLANT SETTERS

Acmeline Mfg. Co.
Traverse City, Mich.
Nagley Transplanter Co.
Memphis, N. Y.

#### PLANT SUPPORTS

Ball-Biddle Co.
Riverton, N. J.
Erickson Co., Inc., C. E.
Des Moines, Iowa
Garden Supplies (1929) Ltd. Liverpool, England.

Harris Mfg. Co., A. W. (Bands)

Sleepy Eye, Minn.

Henry & Lee

New York, N. Y.

Homecraft Specialty Mfg. Co. Homecraft Specialty Mfg. Co.

Mattoon, Ill.

Ideal Mfg. Co.

Des Moines, Iowa
Igoe Bros.

Brooklyn, N. Y.

McHutchison & Co.

New York, N. Y:

(See Adv. on Page 161)

Michigan Wire Goods Co.

Niles, Mich.

(See Adv. on Page 139)

Reichard Mfg. Co., F. H.

Bangor, Pa.

Star Expansion Bolt Co. (Hooks)

New York, N. Y.

S-W Supply Co. (Stakes)

Girard, Kans.

(See Adv. on Page 139)

(See Adv. on Page 139)

Thieman Harvester Co.
Albert City, Iowa
Unadilla Silo Co., Inc.
Unadilla, N. Y.
Vaughan's Seed Store
Chicago, Ill.
Woodcraft Co., The
Dalton, N. Y.

#### **PLANTERS**

Allen & Co., Inc., S. L.
Philadelphia, Pa.
Brinly Hardy Co.
Louisville, Ky. Hall Mfg. Co.
Cedar Rapids, Iowa
New Beeman Tractor Co., The
Minneapolis, Minn.
S. & H. Set Onion Planter Co.
Pleasant Valley, Iowa

#### GARDEN AND FIELD IMPLEMENTS AND SUPPLIES—Continued

#### PRUNING IMPLEMENTS

Alliance Mfg. Co., The Alliance, Ohio Bartlett Mfg. Co. Detroit, Mich.

(See Adv. on Page 125) C-K-R Co.

C-K-R Co.
Cleveland, Ohio
Clark & Son, Walter E.
Milford, Conn.
(See Adv. on Page 115)
Clyde Cutlery Co., The
Clyde, Ohio
Disston & Sons, Inc., Henry
Philadelphia, Pa.
Hoeft & Co., Inc.
North Chicago. Ill.
(See Adv. on Page 155)

North Chicago. III.

(See Adv. on Page 155)

Johnson, Inc., Wm.
Newark, N. J.

J. W. S. Trading Co.
New York, N. Y.

Leonard & Son, A. M.
Piqua, Ohio

Nagley Transplanter Co.
Memphis, N. Y.

Northwest Fence & Wire Works
Portland, Ore.

Peck, Stow & Wilcox Co.
Southington, Conn.

Rhodes Mfg. Co.
Grand Rapids, Mich.

Smith & Son, Inc., Seymour
Oakville, Conn.

Village Blacksmith Folks, The
Watertown, Wis.

Wiss & Sons, J.
Newark, N. J.

#### RAKES

Akron-Selle Co.
Akron, Ohio
C-K-R Co.
Cleveland, Ohio
Ellis-Keystone Agricultural Works
Pottstown. Pa.
(See Adv. on Page 125)
Franklin Equipment Co.
Monticello, Iowa
Geyer Mfg. Co.
Rock Falls, Ill.
Hall Mfg. Co.
Cedar Rapids, Iowa
Leonard & Son, A. M.
Piqua, Ohio
Piqua Handle Mfg. Co.
Piqua, Ohio
Sabin Machine Co.
Cleveland, Ohio
Union Fork & Hoe Co.
Columbus, Ohio
(See Adv. on Page 137)
SEEDERS—BROADCAST

#### SEEDERS—BROADCAST

Allen & Co., S. L.
Philadelphia, Pa.
Crown Mfg. Co. (Wheelbarrow)
Phelps, N. Y.
Cyclone Seeder Co.
Urbana, Ind.
Ellis-Keystone Agricultural Works
Pottstown. Pa.
(See Adv. on Page 125)
Goodell Co.
Antrim. N. H.

Goodell Co.
Antrim, N. H.
Pratt Mfg. Co., Wm. E.
Joliet, Ill.
Root Mfg. Co. (Hopper Type)
Cleveland, Ohio
Salem Tool Co.
Salem. Ohio
(See Adv. on Page 125)
Smith Agri. Chem. Co.
Columbus, Ohio
(See Adv. on Page 123)
Star Seeder Co.
Shortsville, N. Y.
Thompson & Sons, O. E. (Wheelbarrow)
Ypsilanti, Mich.
(See Adv. on Page 139)

#### SHOVELS

Ames Shovel & Tool Co. North Easton, Mass. C-K-R Co. Cleveland, Ohio Leonard & Son, A. M. Piqua, Ohio

#### SICKLES

Leonard & Son, A. M.
Piqua, Ohio
Simmons Hardware Co.

St. Louis, Mo.

#### SOIL SHREDDERS

Kemp Mfg. Co. Erie, Pa.

#### SPIKER AND TAMPER

Pick Mfg. Co. Omaha, Nebr.

#### TOOLS—GARDEN

TOOLS—GARDEN

Akron-Selle Co.
Akron, Ohio
Alexander Mfg. Co.
Ames, Iowa
Allen & Co., Inc., S. L.
Philadelphia, Pa.
Alliance Mfg. Co.. The
Alliance, Ohio
American Fork & Hoe Co.
Cleveland, Ohio
Ames Shovel & Tool Co.
North Easton, Mass.
Animal Trap Co. of America
Lititz, Pa.
Avery & Sons, B. F.
Louisville, Ky.
Brinly Hardy Co.
Louisville, Ky.
C-K-R Co.
Cleveland, Ohio
Ellis-Keystone Agricultural Works
Pottstown, Pa.
(See Adv. on Page 125)
Franklin Equipment Co.
Monticello, Iowa
Gardex, Inc.
Michigau City, Ind.
(See Adv. on l'age 125)
Geyer Mfg. Co.
Rock Falls, Ill.
Gilson Co., J. E.
Port Washington, Wis.
Henderson & Co., Peter (Harrows)
New York, N. Y.
Hoeft & Co., Inc.
North Chicago, Ill.
(See Adv. on Page 155)
Hooper Co., Geo.
Memphis, Tenn.
Hudson Mfg. Co., H. D.
Chicago, Ill.
(See Adv. on Page 119)
Imperial Bit & Snap Co.

Memphis, Tenn.

Hudson Mfg. Co., H. D.
Chicago, Ill.
(See Adv. on Page 119)

Imperial Bit & Snap Co.
Racine, Wis.

Johnson, Inc., Wm.
Newark, N. J.

Kingsbury Mfg. Co.
Keene, N. H.
Leonard & Son, A. M.
Piqua, Ohio
Michigan Wire Goods Co.
Niles. Mich.
(See Adv. on Page 139)

Norcross & Sons, C. S.
Bushnell, Ill.

North Wayne Tool Co.
Oakland. Maine
Piqua Handle Mfg. Co.
Piqua, Ohio
Pratt Mfg. Co., Wm. E.
Joliet, Ill.
Reichard Mfg. Co., F. H.
Bangor, Pa.
Stanley Works
New Britain Conn

Bangor, Pa.
Stanley Works
New Britain, Conn.
Union Fork & Hoe Co.
Columbus, Ohio

(See Adv. on Page 137)

#### GARDEN AND FIELD IMPLEMENTS AND SUPPLIES—Concluded

#### TRACTORS

(Also see Garden Tractors, Page 124)

Advance Rumely Thresher Co., Inc. La Porte, Ind. Allis-Chalmers Mfg. Co. Milwaukee, Wis.

Milwaukee, Wis.
Case Co., J. I.
Racine, Wis.
Caterpillar Tractor Co.
San Leandro, Calif.
Cleveland Tractor Co.
Cleveland, Ohio
Ford Motor Co.
Detroit, Mich.
Gray Tractor Co.. The
Minneapolis, Minn.
Gravely Motor Plow & Cultivator Co.
Dunbar, W. Va.
International Harvester Co.
Chicago, Ill.

Chicago, Ill.
Lawson Mfg. Co., John
New Holstein, Wis.
Monarch Tractors Corp.

Monarch Tractors Corp.
Springfield, Ill.
Rogers Tractor & Trailer Co.
Albion, Pa.
Shaw Mfg. Co.
Galesburg, Kans.
Utilitor Co., The
Dayton, Ohio
Wetmore Tractor Mfg. Co.
Sioux City, Iowa
Wisconsin Farm Tractor Co.
Sauk City, Wis.

#### TRANSPLANTERS

Nagley Transplanter Co. Memphis, N. Y.
New Idea Spreader Co.
Coldwater, Ohio
Wiard Plow Co.
Batavia, N. Y.

#### TRAPS—MOLE & ANIMAL

(See Mole & Animal Traps—Page 138)

#### TROWELS

Akron-Selle Co.
Akron, Ohio
Allen & Co., Inc., S. L.
Philadelphia, Pa.

C-K-R Co.

C-K-R Co.
Cleveland, Ohio
Hoeft & Co., Inc.
North Chicago, III.
(See Adv. on Page 155)
Johnson, Inc., Wm.
Newark, N. J.
Leonard & Son, A. M.
Piqua, Ohio
Marshalltown Trowel Co.
Marshalltown, Ia.

Marshalltown, Ia.
Pratt Mfg. Co., Wm. E.
Joliet, Ill.

Reichard Mfg. Co., F. H. Bangor, Pa. Prophet Dandelion Puller Co. Prophetstown, Ill.

Union Fork & Hoe Co. Columbus, Ohio

(See Adv. on Page 137)

#### VEGETABLE & ROOT WASHERS

Felins Tying Machine Co.
Milwaukee, Wis.
Ingersoll Co., Chas. M.
Rocky River, Ohio
Pioneer Mfg. Co.
West Allis, Milwaukee, Wis.

#### WEEDERS

Allen & Co., Inc., S. L. Philadelphia, Pa.

Allen & Co., Inc., S. L.
Philadelphia, Pa.
Animal Trap Co. of America
Lititz, Pa.
Arcade Mfg. Co.
Freeport, Ill.
Barker Mfg. Co.
David City, Neb.
C-K-R Co.
Cleveland, Ohio
Ellis-Keystone Agricultural Works
Pottstown, Pa.
(See Adv. on Page 125)
Geyer Mfg. Co.
Rock Falls, Ill.
Gilson Co., J. E.
Port Washington, Wis.
Hoeft & Co., Inc.
North Chicago, Ill.
(See Adv. on Page 155)
Hudson Mfg. Co., H. D.
Chicago, Ill.
(See Adv. on Page 119)
Imperial Bit & Snap Co.
Racine, Wis.
Johnson, Inc., Wm.
Newark, N. J.

Racine, W1s.
Johnson, Inc., Wm.
Newark, N. J.
Leonard & Son, A. M.
Piqua, Ohio
Michigan Wire Goods Co.
Niles. Mich.
(See Adv. on Page 139)

Noreross & Sons, C. S.
Bushnell, Ill.
Prophet Dandelion Puller Co.
Prophetstown, Ill.
Reichard Mfg. Co., F. H.
Bangor, Pa.
Union Fork & Hoe Co.
Columbus, Ohio
(See Adv. on Page 137)

#### WHEELBARROWS

Defiance Box Co., The Defiance, Ohio Fairbanks Co.
New York, N. Y.
Red Star Products Corp.
Cleveland, Ohio

#### GREENHOUSE AND FLORAL SUPPLIES

#### FLORISTS' SUPPLIES

Almo Trading & Importing Co. New York, N. Y. (Flower Vases) Barnard Co., W. W. Chicago, Ill.

Bird & Son
East Walpole, Mass.
(See Adv. on Page 55)

Chipman Chem. Co., Inc. Bound Brook, N. J.

Co-operative Flint Glass Co.
Beaver Falls, Pa.
(Hyacinth Glasses)
Hampden Mfg. Co. (Flower Holder)
New York, N. Y.

Houchin Co., Thos. W.
Jersey City, N. J.
Lewis Co., G. B.
Watertown, Wis.

Michigan Wire Goods Co.

Niles, Mich. (See Adv. on Page 139)

Randall Co., A. L.
Chicago, Ill.
Smith & Young Co.
Indianapolis, Ind.

Uniform Products Co.
New York, N. Y.
Wilson, Inc., Andrew
Springfield, N. J.
(See Adv. on Page 145)

#### GREENHOUSE AND FLORAL SUPPLIES-Continued

FLOWER BOXES

Express Body Corp.
Crystal Lake, Ill.
Homecraft Specialty Mfg. Co.

Mattoon, Ill.

Hudson Mfg. Co., H. D.
Chicago, Ill.
(See Adv. on Page 119)

Savo Mfg. Co.
Chicago. Ill.
Unadilla Silo Co., Inc.
Unadilla, N. Y.
Yoho & Hooker (Cypress)
Youngstown, Ohio
GLASS

GLASS

Metropolitan Greenhouse Mfg. Corp. Brooklyn, N. Y.

Yoho & Hooker Youngstown, Ohio

GLASS SUBSTITUTE

Acetol Products, Inc. Wilmington, Del. Allen Brothers, Inc.

Omaha, Nebr.

Fleming Bros.
Chicago, Ill.
Flex-o-Glass Mfg. Co.
Chicago, Ill.
Hoeft & Co., Inc.
North Chicago, Ill.

(See Adv. on Page 155)
Turner Bros.
Bladen, Nebr.
Vitalite Co.
New York, N. Y.

GREENHOUSE MATERIAL

Hammond Paint & Chemical Works

Beacon, N. Y.

(See Adv. on Page 143)

Metropolitan Greenhouse Mfg. Corp.

Brooklyn, N. Y.

Vitalite Co. New York, N. Y.

Yoho & Hooker Youngstown, Ohio

HOT BED SASH

Callahan Co., T. J.
Dayton, Ohio
Foley Greenhouse Mfg. Co.
Chicago, Ill.
Gordon-Van Tine Co.

Davenport, Iowa Metropolitan Greenhouse Mfg. Corp. Brooklyn, N. Y.

Vitalite Co.

New York, N. Y.

Yoho & Hooker

Youngstown Ohio

HOT BED SUPPLIES

Cleveland Textile & Bag Co.
Cleveland, Ohio

Metropolitan Greenhouse Mfg. Corp.
Brooklyn, N. Y.

Uniform Products Co.
New York, N. Y.

LABELS—PLANT

Arcade Mfg. Co. Freeport, Ill.

Ball & Socket Mfg. Co. West Cheshire, Conn.

Haas & Sons, Jos. Newport, Ky.

Newport, Ky.
Ideal Mfg. Co.
Des Moines, Iowa
Smock, L. J. (Wood)
Cochranton, Pa.
Stewart Co., Chas.
Roseland, N. J.
S-W Supply Co.
Girard, Kans.
(See Adv. on Page 139)
Whooker

Yoho & Hooker Youngstown, Ohio

#### MOSS, PEAT

Atkins & Durbrow, Inc.—(Horticultural) New York, Chicago & Boston (See Adv. below)

Balfour, Guthrie & Co. San Francisco, Calif.

San Francisco, Calif.
Bremermann & Co., Ernst
New York, N. Y.
Consumers Import Co.
New York, N. Y.
Harvey Seed Co. (Grain & Horticultural)
Buffalo, N. Y.
Ideal Peat Moss Co. (Horticultural)
New York, N. Y.
Klein Mfg. Co.
Burlington, Iowa
Loewith, Inc., Julius
New York City, N. Y.
(See Adv. on Page 63)
McHutchison & Co.
New York, N. Y.

McHutchison & Co.
New York, N. Y.
(See Adv. on Page 161)
Miller & Son, Frank
Chicago, Ill.
Page, Louis E.
Boston, Mass.
Peat Importing Corp.
Los Angeles, Calif.
Philadelphia Seed Co.
Philadelphia, Pa.
(See Adv. on Page 26)
Phillips, C. J.
St. Louis, Mo.
Premier Peat Moss Corp.
New York, N. Y.
Scarlett & Co., Wm. G.
Baltimore, Md.
(See Adv. on Page 40)

(See Adv. on Page 40) Vaughan's Seed Store Chicago, Ill.

#### MOSS, SPHAGNUM

American Bulb Co.
Chicago, Ill.
(See Adv. on Page 111)
Consumers Import Co.
New York, N. Y.
Vaughan's Seed Store
Chicago, Ill.
Williamson, Inc., Garfield
New York, N. Y.
(See Adv. on Page 92)
Wisconsin Moss Co.
Wisconsin Rapids, Wis. Wisconsin Rapids, Wis.

## PEAT MOSS

GPM—Selected quality, green burlap bale head, highly advertised. OKPL—Medium grinding Poultry Litter, chocolate end bale, extensively advertised.

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DRICONURE—Peat Moss and Cow Manure—a complete organic fertilizer.

ATKINS & DURBROW, INC., 165 John Street, New York, N. Y. 177 Milk St., Boston, Mass. 2367 Logan Blvd., Chicago, III.

#### GREENHOUSE AND FLORAL SUPPLIES-Concluded

#### POTS-FLOWER

Bird & Son
East Walpole, Mass.
(See Adv. on Page Codar Works) (See Adv. on Page 55)
Richmond Cedar Works (Cedar Tubs)
Richmond, Va.
Syracuse Pottery Co.
Syracuse, N. Y.
Western Stoneware Co.

Monmouth, Ill. Zane Pottery Co.

So. Zanesville, Ohio

#### POT COVERS—FLOWER

Bird & Son

East Walpole, Mass. (See Adv. on Page 55)

#### POT SAUCERS—FLOWER

Almo Trading & Importing Co. New York, N. Y. Bird & Son

East Walpole, Mass.

(See Adv. on Page 55)

Syracuse Pottery Co., Inc.

Syracuse, N. Y.

Zane Pottery Co.

Zanesville. Ohio

#### SEED AND PLANT FORCERS

Ball-Biddle Co. Riverton, N. J. American Fork & Hoe Co, Cleveland, Ohio

Virginia-Carolina Chemical Corp. Richmond, Va.

#### SEED FLATS

Yoho & Hooker (Cypress) Youngstown, Ohio

#### TRANSPLANTING BOXES

Ball-Biddle Co. Riverton, N. J.

Belle City Basket Co. Racine, Wis.

Bird & Son

East Walpole. Mass. (See Adv. on Page 55)

Burlington Willowware Co. Burlington, Iowa

#### TRANSPLANTING POTS

Bird & Son, Inc.

East Walpole, N. Y. (See Adv. on Page 55)

Lily Tulip Cup Corp. New York, N. Y.

#### TREE AND PLANT TUBS

Richmond Cedar Works Richmond, Va.

#### INOCULANTS AND PLANT FOODS

#### INOCULANTS

Dickinson Co., The Albert Chicago, Ill.

(See Adv. on Page 132)

Edwards Laboratory, The Lansing, Mich.

Kalo Inoculant Co. Quincy, Ill.

(See Adv. on Page 135)

McQueen Bacteria Co. Baltic, Ohio

Nitragin Co., The Milwaukee, Wis.

(See Adv. on Page 135)

Stimuplant Laboratories, Inc. Long Island City, N. Y.

(See Adv. on Page 135)

Urbana Laboratories Urbana, III.

(See Adv. on Page 134)

#### PLANT FOODS

American Agricultural Chem. Co. New York, N. Y.

Armour Fertilizer Works Atlanta, Ga.

Barrett Co., The New York City, N. Y.

Arbor Chemical Co. Paterson, N. J.

Carus Chemical Co. La Salle, Ill.

Darling & Co. Chicago, Ill.

Fertilawn Co.

Hamilton, N. Y.

(See Adv. on Page 31)

Goulard & Olena, Inc. New York, N. Y.

(See Adv. on Page 145)

Grasselli Chemical Co., The

Cleveland, Ohio
(See Adv. on Second Cover)

The Heil Co

Milwaukee, Wis.

International Agricultural Corp. New York, N. Y.

Plantabbs Corporation Baltimore. Md.

Premier Poultry Manure Co. Chicago, Ill.

Pulverized Manure Co. Chicago, III.

(See Adv. on Page 123)

Sewerage Commission Milwaukee, Wis.

Smith Agricultural Chemical Co. Columbus, Ohio

(See Adv. on Page 123)

Stimuplant Laboratories, Inc. Long Island City, N. Y.

(See Adv. on Page 135)

Swift & Co.

Chicago, Ill.

Synthetic Nitrogen Products Corp. New York, N. Y.

Tennessee Corporation New York, N. Y.

Virginia-Carolina Chem. Corp. Richmond, Va.

Williamson, Inc., Garfield New York, N. Y.

(See Adv. on Page 92)

Wilson, Inc., Andrew Springfield, N. J.

(See Adv. on Page 145)

#### Our new introduction - for spot and for contract

## ALL-DOUBLE DWARF PEONY-FL. "CARMINE GLORY"



#### T. SAKATA & CO.

YOKOHAMA, JAPAN

The originators of ALL-DOUBLE or 100% Double Giant Petunias and other novelties.

We grow a full line of Flower Seeds and Specialize in PETUNIA, PANSY, PHLOX, DOUBLE PORTULACA, etc.

Write for general catalogue and further details

## HERBST BROTHERS, Inc.

92 WARREN STREET

NEW YORK, N. Y.



The culture with the highest efficiency test. Jelly type culture most strongly recommended by agricultural authorities. Best strains of proper organisms effective and proved in constant field and laboratory tests. Finest ingredients used. Produced in an approved laboratory under personal supervision of a leading technical bacteriologist.

Sales Appeal

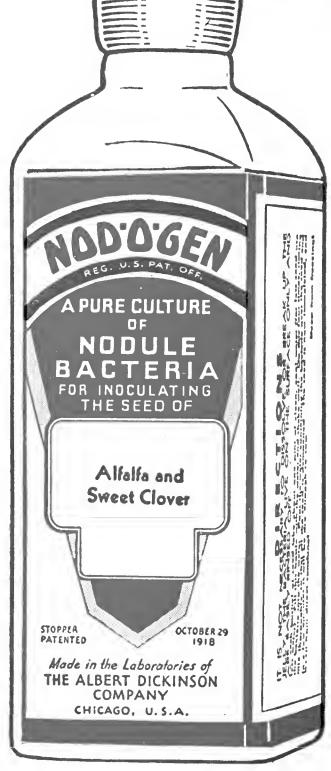
The culture having all the good advantages. Patented ventilating stopper. Most attractive label and packaging. It sells at sight - you can see it is good. Sales increasing year after year. Now in the 21st year of production in our own laboratory. Nationally known. Dealer sales helps and advertising supplied.

## Low Cost

The culture selling at most reasonable price consistent with high quality. Economical to the user - highly profitable to the dealer.

Write the United States Department of Agriculture or your local experiment station regarding NOD-O-GEN.

We will be glad to place full particulars before any dealer interested in joining the host of satisfied NOD-O-GEN distributors.



Produced in Laboratories of

### THE ALBERT DICKINSON COMPANY

CHICAGO

ILLINOIS

Refiners & Distributors PINE TREE Farm Seeds & GLOBE FEEDS

### LEGUME INOCULATION

GROWERS of legume crops find that seed inoculation pays. It pays for the following reasons: (1) It enables plants to secure nitrogen from the air and passes it on to the plants for their use. (2) It prevents crop failures. Very often a legume crop is a complete failure if the seed has not been inoculated. (3) It increases crop yields; in some cases several hundred per cent. (4) It improves the crop quality. (5) It enriches the soil.

#### Reliable Dealers

There are many reliable manufacturers of legume inoculation material. It is not necessary any longer to use cultures from state agricultural experiment stations, for these commercial concerns have reliable and tested cultures. These firms employ bacteriologists who have made this line of work a life-long study. Each culture for the different kinds of legumes is carefully prepared and when properly mixed with the seeds to be planted the desired inoculation results.

These commercial cultures are inspected and tested from time to time by state and government officials, which tends to keep manufacturers careful as to the potency of their product. As a result of the painstaking manner in which these legume cultures are manufactured, some excellent cultures are now available.

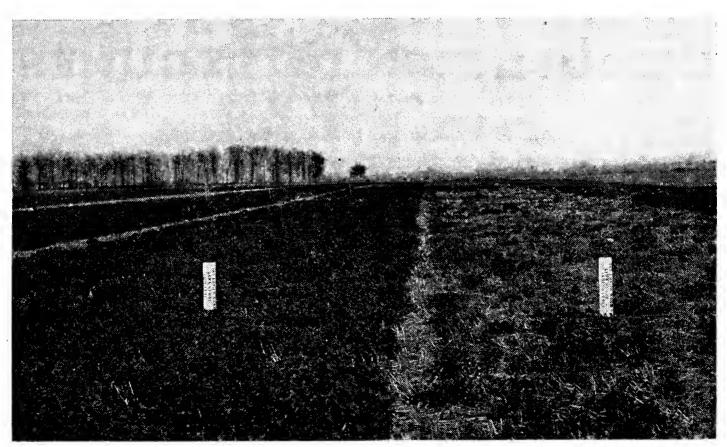
#### Increased Demand

The demand for inoculants is increasing each year. Farmers are slowly but surely finding out that inoculating seed pays. This demand is bound to increase as time goes on and there is little question but that the demand will be doubled in a very short time.

Due to this increased interest in inoculation seed dealers are finding that it pays to sell well known brands of inoculants.

The margin of profit obtained from the retailing of legume inoculants is very attractive. Seedsmen should put special stress on their sales efforts to urge all buyers of legume seed to purchase a supply of inoculants sufficient to treat the seed they buy.

The manufacturers of legume inoculants put up their products in attractive containers thus making them practical for display purposes. They also cooperate with seed dealers in supplying them with window display material, electros, and advertising copy for seed catalogs and local newspaper advertising. In fact,



Courtesy of Agricultural Experiment Station, Purdue University, Lafayette, Ind.

(Left) Limestone and a commercial inoculant were used on this field of sweet clover.

(Right) Limestone only was used.

these manufacturers make every effort possible to aid seedsmen in promoting the sale of legume inoculants.

#### Seeds That Need Inoculating

The following seeds require inoculation in order to assure a perfect stand: Red clover, alfalfa, sweet clover, alsike clover, white clover, crimson clover, bur clover, yellow trefoil, lespedeza, garden peas, field peas, lentil, vetches, sweet peas, cowpeas, soybeans, garden beans, field beans, lima beans, velvet beans, peanuts, beggarweed, lupines, sainfoin and other legumes.

#### Value of a Culture

Dr. E. B. Fred of the Wisconsin Agricultural Experiment Station says that the value of a culture seems to depend in a large measure on at least five factors:

1—Upon the organism. It is essential that the culture of bacteria contain the proper organism to form nodules on the desired host plant. In general, it is desirable to have only the one type of organism in the culture.

2—Upon the efficiency of the strain. Select an active strain of the desired organism. Because of the variation between strains in relation to effectiveness, every

effort should be made to select strains of the bacteria which are known to be of decided benefit to the host plant, and to keep these tested cultures under conditions which will maintain the organisms in an active state.

3—Upon the number of bacteria. Just how many bacteria are required in order to produce the maximum number of effective nodules is not known. In general an abundance of the bacteria, probably several thousand per seed, produces the best results.

4—Upon age of culture. Old cultures may be low in total number of viable cells and those which are alive are presumably in a weakened condition. Naturally a biological product such as a culture of bacteria decreases rapidly in number of vegetative cells with an increase in age. To secure the best result use only young active cultures.

5—Upon culture medium. The substrate on which the organisms are grown exerts a profound influence on the number and efficiency of the cells. The authors prefer a medium low in available nitrogen and with a neutralizing agent, such as calcium carbonate, present.

Superior Strains



Fresh Strong

## INOCULATION OF LEGUMES

Backed by

Staff of Specially Trained Scientists

Modern Scientific Laboratory

Controlled Greenhouse Tests, Extensive Field Experiments

Reliable Organization and Sound Policies

Offers Large Profit for Small Investment

THE URBANA LABORATORIES,

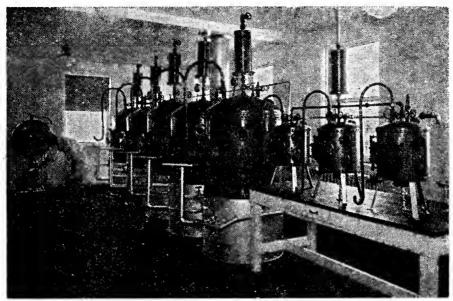
URBANA, ILLINOIS

Let SEED WORLD Service Bureau help you. No charge. Just write us and we will do the rest. SEED WORLD, 325 W. Huron St., Chicago

## NITRAGIN'S NEW HOME

contains the most modern laboratory of its kind in the world.

FOR over 35 years



Mass production of legume bacteria is scientifically controlled in these exclusive NITRAGIN patented incubators (U. S. Pat. No. 1,618,461). The bacteria are grown under a special process (U. S. Pat. No. 1,909,622) which insures uniformity in quality, and makes possible the high bacteria count on every NITRAGIN can.



The Nitragin Co., Inc.

3747 No. Booth St., Milwaukee, Wis. FOR over 35 years NITRAGIN — The Original Legume Inoculator — has maintained its leadership . . . because there is no substitute for quality.

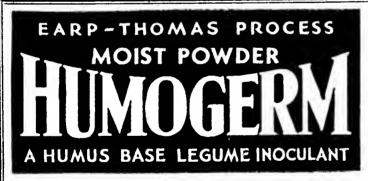
NITRAGIN is an important item that builds seed sales and seed reputations. Always dependable.

Extensive national advertising — radio — dealer helps — popular prices—liberal margins make NITRAGIN a profit builder too.

Write for discounts.

for alfalfa, clovers, soy beans, cow peas, vetch, peas, beans—all legumes





Users 1935 Price Based on Packing Guarantee

31/3c Per Billion

HIGH-BRED SELECTED
NITROGEN-FIXING BACTERIA

Cash in on the increased sales, make more profit from inoculation by featuring recognized highest quality at

#### 50c Per Bushel

(Small Seed Size)
35c Per Bu. Large Seeds

KALO INOCULANT CO.

Quincy, Illinois

## A QUICK TRIP

From US to YOU to Your CUSTOMER

Every customer who buys a plant, flower or vegetable seed needs food for healthier growth.

No plant can slack as Stim-U-Plant acts, and every successful plant enhances your reputation.

## STIM-U-PLANT

The Original Plant Food Tablet.

Most efficient plant food on market Nationally advertised—Sells easily

increases your profits SIZES 10c. 25c, 75c, \$3.50

Packed in attractively, lithographed packages and cartons for counter display. Quick turnover.

Ask for attractive sales offer.

STIMUPLANT LABORATORIES, INC. Long Island City, N. Y.

#### LAWN IMPLEMENTS AND SUPPLIES

#### DIGGERS—DANDELION

Prophet Dandelion Puller Co. Prophetstown, Ill. Union Fork & Hoe Co. Columbus, Ohio (See Adv. on Page 137)

#### GARDEN HOSE

Atlantic Mfg. Co.
Wilmington, Del.
Diamond Rubber Co., Inc. Akron, Ohio
Electric Hose & Rubber Co.
Wilmington, Del.
Gates Rubber Co.
Denver, Colo.
Goodrich Rubber Co.
Akron, Ohio
Goodyear Rubber Co.
Akron Ohio Akron, Ohio
Hayes Pump & Planter Co.
Galva, Ill. Leonard & Son, A. M.
Piqua, Ohio
Metropolitan Greenhouse Mfg. Corp.
Brooklyn, N. Y.
Tillinghast Rubber Co., Inc., B. C.
Philadelphia, Pa.

#### GRASS SHEARS

Alliance Mfg. Co.
Alliance, Ohio
Leonard & Son, A. M.
Piqua, Ohio
Peck Stow & Wilcox Co. Southington, Conn.
Smith & Son, Inc., Seymour
Oakville, Conn.

#### HEDGE TRIMMERS

C-K-R Co. Cleveland, Ohio Clyde Cutlery Co., The Clyde, Ohio Clyde, Ohio

Detco Mfg. Co.

Oaks, Montgomery Co., Pa.

(See Adv. on Page 137)

Disston & Sons, Inc., Henry
Philadelphia, Pa.

Jaeger Prod. Co.
Trenton, N. J.

Leonard & Son, A. M.
Piqua, Ohio

Skilsaw, Inc. (Electric)
Chicago, Ill.

Smith & Son, Inc., Seymour
Oakville, Conn.

Village Blacksmith Folks, The
Watertown, Wis.

Wallington Machine Co., Inc. (Electric)
Passaic, N. J.

#### HOSE COUPLINGS

Allen Mfg. Co., W. D.
Chicago, Ill.
Tillinghast Rubber Co., Inc., B. C.
Philadelphia, Pa.

#### HOSE NOZZLES

Allen Mfg. Co., W. D. Chicago, Ill. Electric Sprayit Co. South Bend, Ind. McClain Bros Canton, Ohio Smith & Co., D. B.
Utica, N. Y.
Tillinghast Rubber Co., Inc., B. C.
Philadelphia, Pa.

#### HOSE REELS

Anker-Holth Mfg. Co. Port Huron, Mich. C-K-R Co. Cleveland, Ohio

Specialty Mfg. Co.
St. Paul, Minn.
Tillinghast Rubber Co., Inc., B. C. Philadelphia, Pa.

#### LAWN EDGE TRIMMERS

Allen & Co., Inc., S. L. Philadelphia, Pa. C-K-R Co. Cleveland, Ohio Hall Mfg. Co.
Cedar Rapids, Iowa
Imperial Bit & Snap Co.
Racine, Wis.
Leonard & Son, A. M.
Piqua, Ohio
Philadelphia Lawn Mower Co., Inc.
Philadelphia, Pa.
Superior Metal Spinning & Mfg. Co Superior Metal Spinning & Mfg. Co. Toledo, Ohio Union Fork & Hoe Co. Columbus, Ohio (See Adv. on Page 137)

#### LAWN FURNITURE AND DECORA-TIONS

Ball-Biddle Co.
Riverton, N. J.
Brush Pottery Co. (Fountains—Vases)
Zanesville, Ohio
Buffalo Wire Works Co., Inc.
Buffalo, N. Y.
Erickson Co., C. E.
Des Moines, Iowa
Express Body Corp.
Crystal Lake, Ill.
Hartman-Sanders
Chicago, Ill.
Homecraft Specialty Mfg. Co.
Mattoon, Ill.
Humboldt Redwood Lumber Co.
Chicago, Ill. Ball-Biddle Co. Chicago, Ill.
Northwestern Fence & Wire Works
Portland, Ore.
Root Co. of Iowa, A. I.
Council Bluffs, Iowa
Smith Wire & Iron Wks., F. P.
Chicago, Ill.
Standard Ventilator Co. (Trellis)
Lewisburg Pa. Lewisburg, Pa.
Staples Foundry Co.
Mount Vernon, Ind.
Testrite Instrument Co.
New York, N. Y.
Unadilla Silo Co., Inc.
Unadilla, N. Y.
Western Stoneware Co. Western Stoneware Co. Monmouth, Ill. odcraft Co., The Woodcraft Co., T Dalton, N. Y. Yoho & Hooker (Trellis) Youngstown, Ohio

LAWN MOWERS

American Lawn Mower Co.

Muncie, Ind.

Blair Mfg. Co.

Springfield, Mass.

Brinly Hardy Co.

Louisville, Ky.

Clipper Mfg. Co.

Dixon, Ill.

Coldwell Lawn Mower Co.

Newburgh, N. Y.

Cooper Mfg. Co. (Power)

Marshalltown, Iowa

Cushman Motor Works (Power)

Lincoln, Nebr.

Dille & McGuire Mfg. Co.

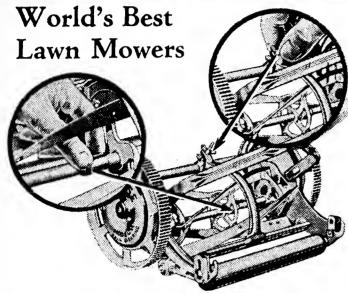
Richmond, Ind.

Eclipse Lawn Mower Co.

Prophetstown, Ill. LAWN MOWERS Prophetstown, Ill.

(See Adv. on Page 137)
Elwood Lawn Mower Mfg. Co.
Elwood, Ind.
Gilson-Bolens Mfg. Co. (Power)
Port Washington, Wis.





## Nationally Accepted Profitable to Sell

Exclusive Finger Tip Adjustment and Automatic Self Sharpening . . . plus lawn protection, are features that create the desire to own a genuine Eclipse Mower. Millions of home owners know and demand Eclipse, because of years of national advertising.

#### Eclipse Power Mowers

Economical . . . efficient . . . simple to operate. Three sizes. Powered for all lawns. Priced from \$137.50 up. Write for our proposition to seed merchants on hand and power mowers.



Eclipse Lawn Mower Company

Manufacturers

PROPHETSTOWN, ILL., U. S. A.

### Sell Tools That Help You SELL GARDENING

UNION forged steel tools (lighter, stronger, better designed) encourage more home gardening by making it easier. We have also bought and distributed over 1,000,000 copies of Harry O'Brien's famous garden book, telling people how to buy and use more seeds, plants, fertilizers, etc., as well as tools.

WE BOTH BENEFIT when you sell UNION Garden Tools.

This DISPLAY RACK Makes 50% More Sales!

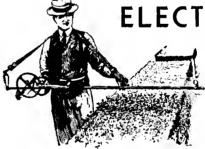
Puts tools out where people can see and handle them. Has increased sales for 7000 dealers. Ties up with UNION advertising in leading national magazines. Portable, all - steel, brilliantly enameled. Worth \$7.50. Get it FREE,

Send for Free Offer!



THE UNION FORK & HOE CO. COLUMBUS, OHIO

## Little Wonder HEDGE TRIMMER ELECTRIC AND

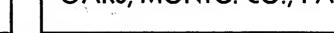


HAND POWER

Thousands in use all over the world—A Marvel— Trims ten times faster than hand shears. Easy to operate. A model and size to meet every need.

Write for distributors terms.

DETCO MFG. CO., PA.



#### LAWN IMPLEMENTS AND SUPPLIES—Concluded

Lawn Mowers—Continued Henley Lawn Mower Co.
Richmond, Ind.
Hudson Mfg. Co., H. D.
Chicago, Ill.
(See Adv. on Page 119)
Ideal Power Lawn Mower Co. (Power)
Lansing, Mich.
Jacobsen Mfg. Co. (Power)
Racine, Wis.
Mast Foos Co. Lansing, Mich.
Jacobsen Mfg. Co. (Power)
Racine, Wis.
Mast, Foos Co.
Springfield, Ohio
Milbradt Mfg. Co. (Power)
St. Louis, Mo.
Modern Machine Works, Inc. (Power)
Milwaukee, Wis.
Moto-Mower Co. (Power)
Detroit, Mich.
New Beeman Tractor Co., The (Power)
Minneapolis, Minn.
Outboard Motors Corp.
Milwaukee, Wis.
Philadelphia Lawn Mower Co., Inc.
Philadelphia, Pa.
Shaw Mfg. Co. (Power)
Galesburg, Kansas
Stearns & Co., E. C. (Power)
Syracuse, N. Y.
Toro Mfg. Co.
Minneapolis, Minn.
Townsend & Co., S. P.
Bloomfield, N. J.

LAWN ROLLERS LAWN ROLLERS

Caledonia Bean Harvester Works
Caledonia, N. Y.
Graham & Co., John H.
New York City, N. Y.
Leonard & Son, A. M.
Piqua, Ohio
Toro Mfg. Co.
Minneapolis, Minn.
Wilder-Strong Implement Co.
Monroe, Mich.
Worthington Mower Co.
Stroudsburg, Pa.

#### LAWN SEEDERS

Salem Tool Co.
Salem, Ohio
(See Adv. on Page 125)
Thompson & Sons, O. E.
Ypsilanti, Mich.
(See Adv. on Page 139)

#### LAWN SPRINKLERS

LAWN SPRINKLERS

Allen Mfg. Co., W. D.
Chicago, Ill.

Alsteel Mfg. Co.
Battle Creek, Mich.

Armstrong Electric & Mfg. Corp.
Huntington, W. Va.
Chicago Flexible Shaft Co.
Chicago, Ill.
Coldwell Lawn Mower Co.
Newburgh, N. Y.
Dayton Irrigation Co.
Dayton, Ohio
Diamond Rubber Co.
Akron, Ohio Akron, Ohio
Double Rotary Sprinkler Co.
Kansas City, Mo.
Imperial Bit & Snap Co.
Racine, Wis.
Kopcsay, Jos
South Bend, Ind.

Leonard & Son, A. M.
Piqua, Ohio
March Automatic Irrigation Co. March Automatic Irrigation Co.

Muskegon, Mich.

Peck Bros. & Co.

New Haven, Conn.

Rose Mfg. Co., Frank

Hastings, Nebr.

Smith & Co., D. B.

Utica, N. Y.

Tillinghast Rubber Co., Inc., B. C.

Philadelphia, Pa.

White Showers, Inc.

Detroit. Mich. White Showers, I Detroit, Mich. X. L. Mfg. Co. Chicago, Ill. (See Adv. on Page 139)

LIME International Agricultural Corp.
New York, N. Y.
Marble Cliff Quarries Co. Columbus, Ohio

MOLE AND ANIMAL TRAPS

Abington Trap Co.
Abington, Ill.
Animal Trap Co. of America
Lititz, Pa.
Goulard & Olena, Inc.
New York, N. Y.
(See Adv. on Page 145)
Grelle, C. E. (Mole)
Portland, Ore.
(See Adv. on Page 55)

(See Adv. on Page 55)
Macabee Gopher Trap Co. (Gopher)
Los Gatos, Calif.
Michigan Wire Goods Co.
Niles, Mich.

(See Adv. on Page 139)
Pratt Co., Wm. E.
Joliet, Ill.
Roper Co., J. R.
San Leandro, Calif.
Schroeter Bros. Hdwe. Co. (Mole)
St. Louis, Mo.

NOZZLE HOLDERS Anker Holth Mfg. Co. Port Huron, Mich.

RAKES—DANDELION AND LAWN Hall Mfg. Co. (Lawn)
Cedar Rapids, Iowa
Union Fork & Hoe Co.
Columbus, Ohio
(See Adv. on Page 137)

ROCK GARDEN NOVELTIES

Ball-Biddle Co. (Trellis)
Riverton, N. J.

Michigan Wire Goods Co.
Niles, Mich.
(See Adv. on Page 139)

Western Stoneware Co.
Monmouth, Ill.

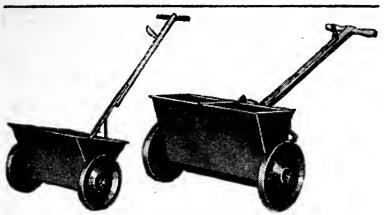
ROOT WATERER & FERTILIZER Stauffer Machine Works Honey Brook, Pa.

SOD CUTTERS

Lane & Son, M. R.
Ardmore, Penna.
Union Fork & Hoe Co.
Columbus, Ohio (See Adv. on Page 137)

## Patronize those who made it possible to publish this Directory

See Advertisers' Index on page 180



### **PROFITABLE** for **CATALOG & STORE** Lawnettes

Made in five different sizes

Every Lawn needs one

The easy, quick, dependable way of distributing lawn grass seed, plant foods and other materials in the required

amount.
Our Thompson Seeders and Spreaders open up tremendous sales possibilities for you with your prospects and custom-

Let us explain how easily with our proposition you can secure increased sales—write today.

#### O. E. THOMPSON & SONS 121 RIVER BLVD.

**YPSILANTI** 

**MICHIGAN** 



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POPULAR AND

PROFITABLE

AND ROCK GARDEN ACCESSORIES

YOUR 1935 CATALOG

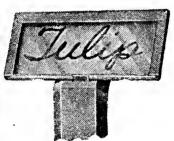
Reddick Mole Trap Little Giant Mole Trap Interchangeable Wire Plant Supports One and Two-Eye Wire Stakes Wire Wreath Easels Sectional Flower Garden Fence and Plant Support Sectional Corner Guard Fence Hanging Baskets Hanging Basket Hook Flower Pot Bracket Extra-Heavy, All-Steel Weeders (Long and Short Handle) **Decorative Bird Sets** Garden Hose Supporter Star Pocket Gopher Trap

Ask for catalog and prices

MICHIGAN WIRE GOODS CO. NILES MICHIGAN

#### PERFECTION MARKERS

ARE ALWAYS IN DEMAND BY YOUR SEED CUSTOMERS because they want Sturdy, Convenient, Economical markers THE PERFECTION LINE IS A COMPLETE LINE



Plant Stake

a marker for every possible need.

Perfection Markers are made from galvanized sheets and welded together—they are practically indestructible and may be used year after year, an indefinite number of times, for a variety of markings. Green baked enamel finish. Write for catalog, samples and dealer's discount.

The S-W SUPPLY CO.

GIRARD

KANSAS



Garden Marker



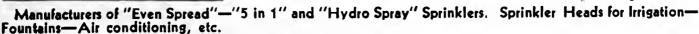
INCOMPARABLE

As to Performance, Discounts, Low Prices, Appearance

Profit Producers

Large difference between Factory and Retail price allows very attractive Profits to Jobbers and Dealers. Every X.L. Sprinkler UNCONDITIONALLY guaranteed to satisfy.

MFG. CO. 3806 Montrose Ave.





No. 1

#### SPRAYERS AND SPRAY MATERIALS

Insecticides, Fungicides and Repellents

ANIMAL DIPS

Carbola Chemical Co.

Carbola Chemical Co.
Natural Bridge, N. Y.
Carco Spray Co., Inc.
Tacoma, Wash.
Chipman Chemical Co., Inc.
Bound Brook, N. J.
Conkey Co., G. E.
Cleveland, Ohio
General Chem. Co.
New York, N. Y.
Germo Mfg. Co.
St. Louis, Mo.
Good, Inc., James
Philadelphia, Pa.
(See Adv. on Page 147)
Grasseli Chemical Co., The
Cleveland, Ohio
(See Adv. on Second Cover)
Lee Co., Geo. H.
Omaha, Neb.
LeGear Medicine Co., Dr. L. D.
St. Louis, Mo.
Merck & Co., Inc.
Rahway, N. J.
Nicotine Mfg. Co.
Henderson, Ky.
Pratt Food Co.
Philadelphia, Pa.

Henderson, Ky.
Pratt Food Co.
Philadelphia, Pa.
Sherwin-Williams Co.
Cleveland, Ohio
Tobacco By-Products & Chem. Corp.
Louisville, Ky.
(See Adv. on Pages 140-142-157-159)

COPPER OXIDE (RED)

Rohm & Haas Co.
Philadelphia, Pa.
(See Adv. on Page 145)

CREOSOTE OIL

C-A Wood Preserver Co. St. Louis, Mo. (See Adv. on Page 155)

CROW REPELLENTS

CROW REPELLENT

Bowker Chemical Co.
New York, N. Y.
Cedar Hill Formulae Co.
New Britain, Conn.

Good, Inc., James
Philadelphia, Pa.
(See Adv. on Page 147)
Goulard & Olena, Inc.
New York, N. Y.
(See Adv. on Page 145)
Hammond Paint & Chem. Co.
Beacon, N. Y.
(See Adv. on page 143)

DOG REPELLENTS

Acme White Lead & Color Works
Detroit, Mich.
(See Adv. on Page 153)
Bohlender Plant Chemicals, Inc.
Tippecanoe City, Ohio
(See Adv. on Page 141)
Hammond Point & Chem. Co.

Hammond Paint & Chem. Co.

Beacon, N. Y. (See Adv. on page 143)

Mell-Norr
Fort Wayne, 1nd.

Tobacco By-Products & Chem. Corp.
Louisville, Ky.
(See Adv. on Pages 140-142-157-159)

#### DUSTERS

Acmeline Mfg. Co.
Traverse City, Mich.
Bowker Chemical Co.
New York, N. Y.
Brown Co., E. C.
Rochester, N. Y.
Chipman Chem. Co., Inc.
Bound Brook, N. J.
Dobbins Mfg. Co.
North St. Paul, Minn.
(See Adv. on Page 141)
Electric Sprayit Co.
South Bend, Ind.
Feeny Manufacturing Co.

Feeny Manufacturing Co.
Muncie, Ind.
"Friend" Mfg. Co.
Gasport, N. Y.

Hoeft & Co. North Chicago, Ill.

North Chicago, III.

(See Adv. on Page 155)

Houchin Co., Thos. W.

Jersey City, N. J.

Hudson Mfg. Co., H. D.

Chicago, III.

(See Adv. on Page 119)

Lirio, P. E.

Vineland, N. J.

Los Angeles Chemical Co.

Los Angeles, Cal.

Peerless Dust Gun Co.

Cleveland, Ohio

Root Mfg. Co.

Cleveland, Ohio

Smith & Co., Inc., D. B.

Utica, N. Y.

Wilson, Inc., Andrew

Wilson, Inc., Andrew Springfield, N. J. (See Adv. on Page 145)

#### FLY REPELLENTS

Chipman Chem. Co., Inc.
Bound Brook, N. J.
Electric Sprayit Co.
South Bend, Ind.
General Laboratories, Inc.
Philadelphia, Pa.
Germo Mfg. Co.

Germo Mfg. Co.
St. Louis, Mo.
Good, Inc., James
Philadelphia, Pa.
(See Adv. on Page 147)
Goulard & Olena, Inc.
New York, N. Y.
(See Adv. on Page 145)
LeGear Medicine Co., Dr. L. D.
St. Louis, Mo. LeGear Medicine Co., Dr St. Louis, Mo. Rex Research Corp. Toledo, Ohio Tanglefoot Co., The Grand Rapids, Mich. Toledo Rex Spray Co. Toledo, Ohio

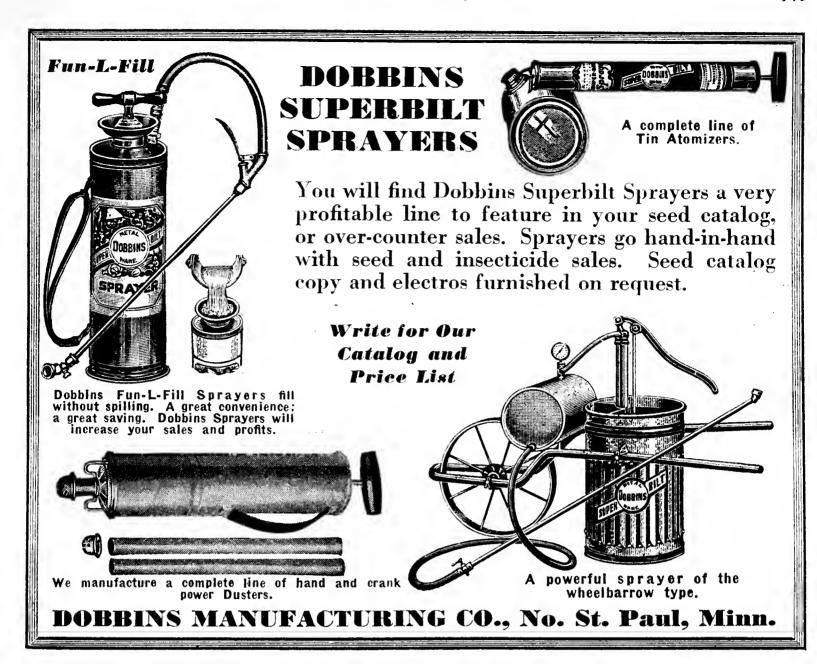
#### DOGS MUST LEARN TO DISCRIMINATE

No one wants stained and discolored shrubbery and so dogs must learn to keep all four feet on the ground around the premises. 1½ teaspoonfuls of "Black Leaf 40" per gallon of water sprayed on the lower branches of evergreens and shrubbery will prevent dogs from committing nuisance. Harmless to dogs—but they do not like the odor.

This new use now added to the many other uses for "Black Leaf 40" is opening up a still broader market and attracting a new group of customers for this fast-selling, steady repeating insecticide.

Tobacco By-Products & Chemical Corp. Inc. Louisville, Kentucky





### SEED BAG TRIERS

# QUICK, SAFE CONVENIENT

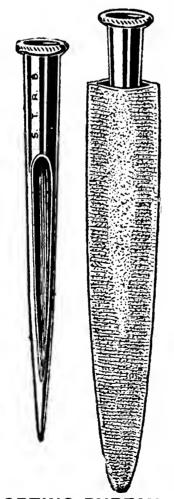
Seed triers for quick, convenient drawing of samples without opening or tearing bag. Brass with steel point heavily nickel plated, with solid leather protector.

5 or 6 inches long, Price \$1.00 each, \$10.50 per doz.

9 in. long, with metal shield, Price \$2.00 each.

12 in. long, with metal shield, Price \$3.00 each.

SEED TRADE REPORTING BUREAU
325 W. Huron St. CHICAGO, ILL.





## "DOGZOFF"

Copyright 1933

# A low priced— quick selling item

that has become very popular in the seed trade and dealers are realizing an unusually good profit.

DOGZOFF—The only lasting spray that keeps dogs, cats, rabbits, moles, mice and varmints from places not wanted. Your customers need it. Sells fast. Long profit. Be sure to stock it this year. Write for dealers' prices.

# Bohlender PLANT CHEMICALS, INC. TIPPECANOE CITY, OHIO

Colmery & Post, 250 S. Broad St., Philadelphia, Pa., Distributors for New England and Middle Atlantio States.

#### SPRAYERS AND SPRAY MATERIALS—Continued

Fly Repellents-Wilson, Inc., Andrew Springfield, N. J. (See Adv. on Page 145)

#### FORMALDEHYDE DUST

Rohm & Haas Co. Philadelphia, Pa. (See Adv. on Page 145)

#### **FUMIGANTS**

American Cyanamid & Chem. Co. New York City, N. Y. American Grain Fumigant Co. Minneapolis, Minn. California Spray-Chem. Corp. Berkeley, Cal.

Douglas Chemical & Supply Co.

Kansas City, Mo.

(See Adv. on Page 143)

Electric Sprayit Co.
South Bend, Ind.

Gateway Chemical Co., Inc.

Kansas City Mo.

Gateway Chemical Co., Inc.
Kansas City, Mo.
Good, Inc., James
Philadelphia, Pa.
(See Adv. on Page 147)
Goulard & Olena, Inc.
New York, N. Y.
(See Adv. on Page 145)
Grasselli Chemical Co., The

Grasselli Chemical Co., The
(Cleveland, Ohio)
(See Adv. on Second Cover)
Hammond Paint & Chem. Co.
Beacon, N. Y.
(See Adv. on Page 143)
Innis, Spieden & Co. (Seed)
New York, N. Y.
Interstate Chem. Co.
Jersey City, N. J.
LeGear Medicine Co., Dr. L. D.
St. Louis, Mo.
Liquid Carbonic Co.
Chicago, Ill.

Chicago, Ill.
Merck & Co., Inc.
Rahway, N. J.
Nicotine Mfg. Co.
Henderson, Ky.

Tobacco By-Products & Chemical Corp.
Louisville, Ky.
(See Adv. on Pages 140-142-157-159)
Uniform Products Co.
New York, N. Y.
Wilson, Inc., Andrew
Springfield, N. J.
(See Adv. on Page 145)

#### FUNGICIDES

Acme White Lead & Color Works Detroit, Mich.

(See Adv. on Page 153)
American Agricultural Chemical Co.
New York, N. Y.
American Cyanamid & Chem. Co.
New York City, N. Y.
Ansbacher Siegle Corp.
New York, N. Y.
Ansul Chemical Co.
Marinetta Wis

Marinette, V Aphine Mfg. Co. Madison, N. J. Bayer-Semesan Co., Inc. (Disinfectants)
Wilmington, Del.
California Spray-Chem. Corp.

California Spray-Chem. Corp.
Berkeley, Calif.
Carbolineum Wood Preserving Co.
Milwaukee, Wis.
Chipman Chem. Co., Inc.
Bound Brook, N. J.
Electric Sprayit Co.
South Bend, Ind.
General Chemical Co.
New York, N. Y.
Good, Inc., James
Philadelphia, Pa.

Good, Inc., James
Philadelphia, Pa.
(See Adv. on Page 147)
Goulard & Olena, Inc.
New York, N. Y.
(See Adv. on Page 145)
GrasseHi Chemical Co., The
Cleveland, Ohio
(See Adv. on Second Cover)
Hammond Paint & Chemical Works
Beacon, N. Y.
(See Adv. on Page 143)
Interstate Chemical Co.
Jersey City, N. J.
Kiger Chemical Co. (Disinfectants)
Bowling Green, Ohio
Mallinckrodt Chem. Works
St. Louis, Mo.
Mechling Bros. Chemical Co.

St. Louis, Mo.

Mechling Bros. Chemical Co.
Camden, N. J.
(See Adv. on Page 121)

Merck & Co., Inc.
Rahway, N. J.

Pratt Co., B. G.
New York City, N. Y.

Rex Research Corp.
Toledo, Ohio

Rohm & Haas Co., Inc.
Philadelphia, Pa.
(See Adv. on Page 145)

(See Adv. on Page 145)
Rose Mfg. Co.
Philadelphia, Pa.
Sherwin-Williams Co.
Claveland Object

Cleveland, Ohio
Stumpp & Walter Co.
New York City, N. Y.
Wilson, Inc., Andrew
Springfield, N. J.
(See Adv. on Page 145)

#### INSECTICIDES—ANIMAL

Antrol Laboratories Los Angeles, Calif. Burrell-Dugger Indianapolis, Ind. Carbola Chemical Co.

Natural Bridge, N. Y.
Carbolineum Wood Preserving Co.
Milwaukee, Wis.

Milwaukee, Wis.
C-A Wood Preserver Co.
St. Louis, Mo.
(See Adv. on Page 155)
Chipman Chem. Co., Inc.
Bound Brook, N. J.
Conkey Co., G. E.
Cleveland, Ohio
General Laboratories, Inc.
Philadelphia, Pa.
Germo Mfg. Co.

Germo Mfg. Co. St. Louis, Mo.



# ANNIA GERM KILLS

**MOTHS BUGS** WEEVIL **WORMS** 

**Equally Effective on Bagged** or Bulk Seeds

> Ask for Our New Low Prices to Seed Trade

### DOUGLAS CHEMICAL & SUPPLY COMPANY

**INCORPORATED 1916** 

825-827 South West Boulevard KANSAS CITY, MO.

Sole Manufacturers and Direct Distributors

# **GET YOUR** SHARE

of .

MILLIONS OF **DOLLARS** SPENT IN THE SEED TRADE

 $\boldsymbol{by}$ 

12,500,000 **CONSUMER BUYERS** 

by

ADVERTISING IN SEED WORLD

# Quick Sure **Profits**

OR 60 Years, farmers, gardeners and florists have asked for HAMMOND Products. They are nationally advertised and attractively packaged. The profit margin is unusually generous. We offer 100% jobber and dealer protection, also sales cooperation that helps move merchandise.

### HAMMOND SALES LEADERS

For Counter and Shelf

**SLUG SHOT** The Safe Dust

A combination Insecticide and Fungicide used for more than 50 years for the control of Chewing Insects. A sure selling item.

LIQUID SLUG SHOT

The Ultimate Plant Spray
Contains "Stabilized" Rotenone (patent applied for) and Pyrethrum, combined with effective fungicide.

### GRAPE AND ROSE DUST

The Perfect Fungicide

Prevents and controls Powdery Mildew and Black Spot on Roses, also other fungous diseases.

#### ANT GAS

Sure Death to Ants

A teaspoonful of Ant Gas poured on any ant hill kills all the ants immediately.

#### THRIP JUICE

An Efficient Contact Spray
A concentrated nicotine spray that goes farther, costs less, has higher percentage of kill and lasts longer than most nicotine combinations.

#### DOG SKAT Dog Repellent

A tube will keep dogs away from shrub, tree or flowers. Lasts an entire season.

### **PAINTS & PUTTIES**

for Greenhouse Use

A complete line, including "Old English" Liquid Putty, the original plastic.

Get started right. Send for full details of our 1935 Sales Program.



HAMMOND'S HAMMOND PAINT & CHEMICAL CO.

Estab. 1875

Beacon, New York

#### SPRAYERS AND SPRAY MATERIALS—Continued

Insecticides—Animal—Continued Goulard & Olena, Inc.
New York, N. Y.
(See Adv. on Page 145)

Kalo Company

Kalo Company
Quincy, Ill.
(See Adv. on Page 135)
LeGear Medicine Co., Dr. L. D.
St. Louis, Mo.
Mallinckrodt Chemical Works
St. Louis, Mo.
Mechling Bros. Chemical Co.
Canden, N. J.
(See Adv. on Page 121)
Merck & Co., Inc.
Rahway, N. J.
Rotenone Products Co., Inc.
East Orange, N. J.
Shepard Laboratories
Council Bluffs, Iowa

Council Bluffs, Iowa

Tobacco By-Products & Chem. Corp., Inc. Louisville, Ky. (Black Leaf 40) (See Adv. on Pages 140-142-157-159)

Wilson, Inc., Andrew Springfield, N. J. (See Adv. on Page 145)

#### INSECTICIDES—PLANT

Acme White Lead & Color Works
Detroit, Mich.
(See Adv. on Page 153)
American Color & Chemical Co.
Boston. Mass.
American Cyanamid & Chem. Co.
New York City, N. Y.
Ansbacher Siegle Corp.
New York City, N. Y.
Ansul Chemical Co.
Marinette, Wis.
Calif. Spray-Chemical Corp.
Berkeley, Calif.

Berkeley, Calif.
Chipman Chemical Co., Inc.
Bound Brook, N. J.
Cooper & Nephews, Wm.
Chicago, Ill.

Cooper & Nephews, Wm.
Chicago, Ill.

Douglas Chemical & Supply Co.
Kansas City, Mo.
(See Adv. on Page 143)

Dow Chemical Co.
Midland, Mich.

Electric Sprayit Co.
South Bend, Ind.
General Chemical Co.
New York City, N. Y.

Good, Inc., James
Philadelphia, Pa.
(See Adv. on Page 147)

Goulard & Olena, Inc.
New York, N. Y.
(See Adv. on Page 145)

Grasselli Chemical Co., The
Cleveland, Ohio
(See Adv. on Second Cover)

Half Moon Mfg. & Trading Co.
New York, N. Y.

Hammond Paint & Chemical Works
Beacon, N. Y.
(See Adv. on Page 143)

Hitox Products Corp.
New York, N. Y.

Hitox Products Corp. New York, N. Y. (See Adv. below)

Interstate Chemical Co. Jersey City, N. J. Kalo Company

Kalo Company
Quincy, Ill.
(See Adv. on Page 135)
Kay-Fries Chemicals, Inc.
New York, N. Y.
Mallinckrodt Chemical Works
St. Louis, Mo.
McCormick & Co., Inc.
Raltimore. Md.

McCormick & Co., Inc.

Baltimore, Md.

(See Adv. on Page 145)

McLaughlin, Gormley King Co.

Minneapolis, Minn.

Mechling Bros. Chemical Co.

Camden, N. J.

(See Adv. on Page 121)

Niagara Sprayer & Chemical Co., Inc.

Middleport, N. Y.

Penick & Co., S. B.

New York, N. Y.

(See Adv. on Page 121)

Reade, Inc., Morris B.

Belleville, N. J.

Rohm & Haas Co.

Philadelphia, Pa.

Rohm & Haas Co.
Philadelphia, Pa.
(See Adv. on Page 145)

Rose Mfg. Co.
Philadelphia, Pa.
Rotenone Products Co., Inc.
East Orange, N. J.

Shepard Laboratories
Council Bluffs, Iowa

Tanglefoot Company
Grand Rapids, Mich.

Tobacco By-Products & Chemical Corp.
Inc. (Black Leaf 40)
Louisville, Ky.

Louisville, Ky.
(See Adv. on Pages 140-142-157-159)
Wilson, Inc., Andrew
Springfield, N. J.
(See Adv. on Page 145)

#### MOTH KILLERS

Douglas Chemical & Supply Co.

Douglas Chemical & Supply Co.

Kansas City, Mo.

(See Adv. on Page 143)

Good, Inc., James
Philadelphia, Pa.

(See Adv. on Page 147)

Goulard & Olena, Inc.

New York, N. Y.

(See Adv. on Page 145)

Mallinckrodt Chemical Works
St. Louis, Mo.

Mechling Bros. Chemical Co.

Camden, N. J.

(See Adv. on Page 121)

#### PEST EXTERMINATORS (Rats, Etc.)

Acme White Lead & Color Works (Ant) Detroit, Mich.

(See Adv. on Page 153)
American Cyanamid & Chem. Co.
New York City, N. Y.
Bohlender Plant Chemicals, Inc.
(Mole, Rat)

Tippecanoe City, Ohio
(See Adv. on Page 141)
Carbolineum Wood Preserving Co. Milwaukee, Wis.

The new insecticide that has become so popular in the seed trade is the most efficient and economical on the market. **HITOX** is packed in the following sizes: 1 ounce bottle, 35c; 1 pint can, \$1.75; 1 quart can, \$3.00; 1 gallon can, \$9.00. Write for dealer discounts and sample and sample.

#### HITOX PRODUCTS CORP.

305 W. 26th St.

New York, N. Y.

# Vilson

is the name that is recognized as representing the highest quality in Horticultural products. There are Wilson products for every season and purpose.

#### Wilson's O.K. PLANT SPRAY

Powerful, yet safe, nicotine insecticide for garden and greenhouse use.

#### Wilson's SCALE-O

Superior dormant spray for Ornamentals, Fruit and Shade Trees.

#### Wilson's WEED KILLER

Clean, odorless, Super Strength solution for destroying undesirable plant growth.

Literature and prices on request.



**SPRINGFIELD** 

**NEW JERSEY** 



### RED ARROW GARDEN SPRAY points the way to Profits!

- Because it is the preference of most home gardeners and highly profitable to you.
- Colorful window displays, counter cards, descriptive leaflets, spray charts and other "sales aids" are furnished free upon request.
- Why not concentrate your purchases of garden insecticides in Red Arrow? It will require less investment on your part and assure a more rapid turnover. Think it over!

McCORMICK & COMPANY, INC. BALTIMORE, MD.



"The Best packed and priced line in America." Over 100 manufactured items comprising HOUSEHOLD INSECTICIDES GARDEN INSECTICIDES DISINFECTANTS DEODORANTS **FERTILIZERS** WEED KILLERS (Liquid—Dry) SHEEP MANURE BONE MEAL



We cooperate with THE SEED CATALOGUE TRADE.

#### GOULARD & OLENA, INC.

CHEMICAL MANUFACTURERS

140 LIBERTY ST.

NEW YORK, N.Y

### DEPENDABLE INSECTICIDES and FUNGICIDES

Cuprocide\_a specially prepared form of red copper oxide, widely. recommended for use in seed treatment for prevention of damping-off.

AAZ Special Zinc Oxidea new type of zinc oxide for use where this type of fungicide is recommended and preferred.

Form-O-Fume-a uniform formaldehyde dust.

Lethane 420 - an unusually effective contact insecticide-kills mealy bug, red spider, midge, thrips, aphis, etc.

> Full information and price lists on request.

> > Manufactured by the

#### RÖHM & HAAS CO., Inc.

222 West Washington Square Philadelphia - Pennsylvania

#### SPRAYERS AND SPRAY MATERIALS—Continued

Pest Exterminators—Continued
Carco Spray Co., Inc.
Tacoma, Wash.
Chipman Chem. Co., Inc.
Bound Brook, N. J.
Douglas Chemical & Supply Co.
Kansas City, Mo.
(See Adv. on Page 143)
General Laboratories, Inc.
Philadelphia, Pa.
Germo Mfg. Co.
St. Louis, Mo.
Felix Girard Co., Inc. (Rat)
Minneapolis, Minn.
Good, Inc. Jas.
Philadelphia, Pa.
(See Adv. on Page 147)
Goulard & Olena, Inc.
New York, N. Y.
(See Adv. on Page 115)
Green, E. A. (Mole)
Beverly, N. J.
Grasselli Chemical Co., The
Cleveland, Ohio
(See Adv. on Second Cover)
Jones Products Co. (Ant)
Milwaukee, Wis.
K-R-O Co., The
Springfield. Ohio
LeGear Medicine Co. Dr. L. D.
St. Louis, Mo.
Mallinckrodt Chemical Works
St. Louis, Mo.
Mallinckrodt Chemical Works
St. Louis, Mo.
McAleer Co., E. J (Beetle Traps)
Philadelphia, Pa.
McCloud & Co., W. B.
Chicago, Ill.
Merck & Co., Inc.
Rahway, N. J.
Moore Son's Co., B. J. (Rat Bombs)
Waterville, N. Y.
Pasteur Laboratories (Rat)
New York, N. Y.
Peerless Auto Trap Co.
Chicago, Ill.
Reardon Laboratories, Inc., W. G.
Port Chester, N. Y.
Peerless Auto Trap Co.
Chicago, Ill.
Reardon Laboratories (Ant Traps)
Upper Montclair, N. J.
Tanglefoot Co., The
Grand Rapids, Mich.
V. & M. Products Co.
Galesburg, Mich.
Virus Limited, Inc.
New York City, N. Y.
Wilson, Inc., Andrew
Springfield. N. J.
(See Adv. on Page 145)
Coro Company (Ant)
Chicago, Ill. Pest Exterminators—Continued

#### RODENT REPELLENTS

Castle Chemical Co.
Castle Rock, Minn.
Hammond Paint & Chem. Co.
Beacon, N. Y. (See Adv. on Page 143)

#### SEED DISINFECTANTS

Ansul Chemical Co.

Marinette, Wis.
Bayer-Semesan Co., Inc.

Wilmington, Del.
Bowker Chemical Co.

New York, N. Y.
Castle Chemical Co.

Castle Rock, Minn.
Goulard & Olena, Inc.

New York, N. Y.

(See Adv. on Page 145)
Kiger Chemical Co.

Bowling Green, Ohio
Mallinckrodt Chem. Works

St. Louis, Mo.

Merck & Co., Inc. Rahway, N. J. Rohm & Haas Co. Philadelphia, Pa. (See Adv. on Page 145) SPRAYERS

Acmeline Mfg. Co.
Traverse City, Mich.
Alliance Mfg. Co.. The
Alliance, Ohio
Armstrong Electric & Mfg. Corp.
Huntington, W. Va.
Barnes Mfg. Co.
Mansfield, Ohio
Bean Spray Pump Co.
Lansing, Mich.
Brower Mfg. Co.
Quincy, Ill.
Brown Co., E. C.
Rochester, N. Y.
Campbell-Hausfeld Co., The
Harrison, Ohio Rochester, N. Y.

Campbell-Hausfeld Co., The
Harrison, Ohio
(See Adv. on Page 147)

Chipman Chem. Co., Inc.
Bound Brook, N. J.

Crown Mfg. Co.
Phelps, N. Y.

Deming Co.
Salem, Ohio

Dobbins Mfg. Co.
North St. Paul, Minn.
(See Adv. on Page 141)

Electric Sprayit Co.
South Bend, Ind.

Ellis-Keystone Agricultural Works
Pottstown, Pa.
(See Adv. on Page 125)

Eureka Mower Co.
Utica, N. Y.

Feeny Mfg. Co.
Muncie, Ind.

Goulard & Olena, Inc.
New York, N. Y.
(See Adv. on Page 145)

Hamilton, W. L.
Bangor, Mich.
Hardie Mfg. Co.
Hudson, Mich.
Hayes Pump & Planter Co.
Galva, Ill.

Hudson, Mich.
Hayes Pump & Planter Co.
Galva, Ill.
Hoeft & Co., Inc.
North Chicago, Ill.
(See Adv. on Page 155)
Hudson Mfg. Co., H. D.
Chicago, Ill.
(See Adv. on Page 119)

Chicago, Ill.

(See Adv. on Page 119)

Judd & Leland
Clifton Springs, N. Y.

Lirio, P. E.
Vineland, N. J.

Lowell Sprayer Co.
Lowell, Mich.

Myers & Bro. Co., The F. E.
Ashland, Ohio

Niagara Sprayer & Chemical Co., Inc.
Middleport, N. Y.

Peerless Dust Gun Co.
Cleveland, Ohio

Pugsley & Morrison
Yuba City, Calif.

Smith & Co., Inc., D. B.
Utica, N. Y.

Wilson, Inc., Andrew Wilson, Inc., Andrew Springfield, N. J. (See Adv. on Page 145)

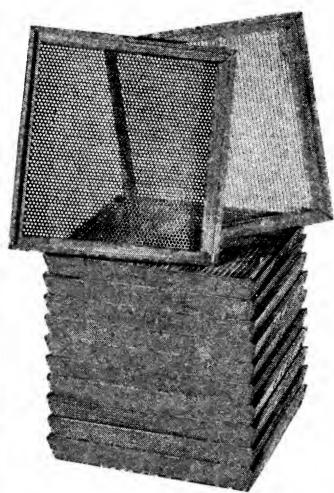
WEED DESTROYERS

Chicago Weed Killer Co. Chicago, Ill. Chipman Chem. Co., Inc. Bound Brook, N. J. Good, Inc., James

Good, Inc., James
Philadelphia, Pa.
(See Adv. on Page 147)
Goulard & Olena, Inc.
New York, N. Y.
(See Adv. on Page 145)
Grasselli Chemical Co., The
Cleveland, Ohio
(See Adv. on Second Cover)

Directory Section Index-Page 4

# Seed Sieves



For determining dockage the following can be used to advantage. Sieves are 8" x 8".

**TIMOTHY** 1/25 zinc top 6x32 wire mesh bottom.

ALSIKE 1,'20 zinc top.
1/18 zinc top.
26x26 wire mesh bottom. 6x32 wire mesh bottom.

**RED CLOVER** 1/15 zinc top. 6x24 wire mesh.

ALFALFA 1/15 zinc top. 1/19 zinc top. 4x26 wire mesh.

**SWEET CLOVER** 7/64 zinc top for rough dockage.

1/15 zinc top for removing unhulled

seed.
1/16 zine top

move unhulled seed. 4x24 wire mesh bottom for common sweet. 4x26 wire mesh bottom for dwarf aweet.

# Don't Buy DIRT!

It is not necessary to buy weed seeds and inert matter when you have a set of our seed dockage sieves. You can determine for yourself the percentage of pure seed.

We can furnish an accurate set of sieves for each variety of field seed.

Write for prices

SEED TRADE REPORTING BUREAU 325 W. Huron St.

ALERT SEEDSMEN find these items quick repeaters with nice profits

# CHEMICAL WEED-KILLER

JUST SPRINKLE LIQUID, KILLS WEEDS CHEAPLY

Packed in qt. and gal. cans. 5-10-30 and 50 gal. drums.

### KEYSTONE FISH-OIL SPRAY-SOAPS

Three widely used, old favorites with successful gardeners and growers

"No. 1"—SODA SOAP, sometimes called Whale-oil soap, for Aphis, Thrip & Scale on porch and garden plants.
"No. 3"—POTASH SOAP, quickly soluble in cold water. Most effective spreader and liberator for Nicotine sprays.

"No. 9"—ROSIN SOAP, quickly soluble, positive sticker and spreader for Bordeaux sprays on grape, plums, tomatoes and all smooth skin fruit. Saves usual heavy "run-off" waste and increases killing power.

Packed in 1, 5 and 10 lb. tins, 25, 50, 100, 250 lb, and 450 lb. drums.

Descriptive Folders and Catalog Cuts Sent on Request.

#### **JAMES** GOOD, INC.

2200 Martha Street

Philadelphia, U. S. A.



### Consumer Advertising

is creating a large demand

#### PARAGON SPRAYERS

"Guaranteed Never to Clog"

Tie up to this campaign. Stock the Paragon Line and get your share of the high grade sprayer business. Paragon prices are right. Dealer discounts are liberal.

Write for Catalog and Price List

The CAMPBELL-HAUSFELD CO. OHIO **HARRISON** 

#### SPRAYERS AND SPRAY MATERIALS—Concluded

Weed Destroyers—Continued Hammond Paint & Chemical Works Beacon, N. Y.

(See Adv. on Page 143)

Interstate Chem. Co. Jersey City, N. J. Reade Mfg. Co.

Jersey City, N. J.

Root Mfg. Co.

Cleveland, Ohio Wilson, Inc., Andrew Springfield, N. J. (See Adv. on Page 145)

#### PETS AND PET SUPPLIES

Bishop, Inc., Henry
Baltimore, Md.
H. J. Fletcher Co.
Philadelphia, Pa.
Flower's Tropical Bird Farms
Van Nuys, Cal.
Haller's Pet Shop
St. Louis, Mo. St. Louis, Mo.
Mussog's Bird Store
Philadelphia, Pa.
National Pet Shops National Pet Shops
St. Louis, Mo.
Nollen & Son, H. A.
Dubois, Pa.
Odenwald Bird Co.
New York, N. Y.
Putnam's—Gold and Tropical Fish
Buffalo, N. Y.
Robison, Ansel W.
San Francisco, Cal.
Southern's Bird Farm
Clifton Hill, Mo.
"Steins" Canary Plant
Philadelphia, Pa.
Vahle, E. C.
Chicago, Ill.

#### BIRD BATHS

Brush Pottery Co.
Zanesville, Ohio
Louisville Pottery Co., Inc.
Louisville, Ky. Silvertone Co.

New York, N. Y.

Smith Wire & Iron Works, F. P.

Chicago, Ill.

Western Stoneware Co. Monmouth, Ill.

Zane Pottery Co.

South Zanesville, Ohio

#### BIRD CAGES

BIRD CAGES

Bishop, Inc., Henry
Baltimore, Md.
Friedlaener, Paul N.
New York, N. Y.
Hendryx Co., Andrew C.
New Haven, Conn.
Mussog's Bird Store
Philadelphia, Pa.
National Pet Shops
St. Louis, Mo.
Nollen & Son, H. A.
Dubois, Pa.
Putnam's—Gold and Tropical Fish
Buffalo, N. Y.
Raedlein Basket Co. Raedlein Basket Co. Chicago, Ill.
Silvertone Co.
New York, N. Y.
"Steins" Canary Plant
Philadelphia; Pa.
Vahle, E. C. Chicago, Ill.

#### BIRD CAGE STANDS—METAL

BIRD CAGE STANDS—WE
Bishop, Inc., Henry
Baltimore, Md.
Hendryx Co., Andrew B.
New Haven, Conn.
Mussog's Bird Store
Philadelphia, Pa.
Putnam's—Gold and Tropical Fish
Buffalo, N. Y.
Schoemann & Mayer, Inc.
New York City, N. Y.

Vahle, E. C. Chicago, Ill. BIRD HOUSES Batcheller Associates, Fred E. Salem, Mass. Salem, Mass.
Bishop, Inc., Henry
Baltimore, Md.
Bishop, Welles L.
Meriden, Conn.
Dodson, Inc., Jos. H.
Kankakee, Ill.
Express Body Corp.
Crystal Lake, Ill.
Homecraft Specialty Mfg. Co.
Mattoon, Ill.
National Pet Shops
St. Louis, Mo.
Putnam's—Gold and Tropical Fish
Buffalo, N. Y.
Rieber Bird Homes
West Webster, N. Y.
Root Co. of Iowa, A. I.
Council Bluffs, Iowa
Schaad & Son, E. J.
Merrill, Wis.
Western Stoneware Co.
Monmouth, Ill.
Woodcraft Co., The
Dalton, N. Y.
Yoho & Hooker Yoho & Hooker Youngstown, Ohio Youngstown, Ohio

BIRD SEED AND SUPPLIES

American Bird Products Co.
Chicago, Ill.

Battle Creek Dog Food Co.
Battle Creek, Mich.
(See Adv. on Page 149)

Bishop, Inc., Henry
Baltimore, Md.

Blamberg Bros., Inc.
Raltimore, Md.
(See Adv. on Page 23)

Dickinson Co., Albert
Chicago, Ill.
(See Adv. on Page 132)

Duryea Seed Co., Inc.
New York, N. Y.

(See Adv. on Page 63)

Exner Sand & Gravel Co.
New York, N. Y.

Franks Bird Store, Inc. (Song Restorer)
New York, N. Y.

Haller's Pet Shop
St. Louis, Mo.
Heger Products Co.
St. Paul, Minn.
Hinton & Co., Inc.
New York, N. Y.

Horton Co., F. T.
Hoboken, N. J.
Johnson, Inc., J. Oliver
Chicago, Ill.
Justrite Co., The
Milwaukee, Wis.
Magnesia Products Co.
Milwaukee, Wis.
Mangelsdorf & Bro., Ed. F.
St. Louis, Mo.
(See Adv. on Page 13)

Mussog's Bird Store
Philadelphia, Pa.
National Pet Shops
St. Louis, Mo.
Nature Friend, The
New York, N. Y.
Nollen & Son, H. A.
Dubois, Pa. BIRD SEED AND SUPPLIES

Merchandise and Seedsmen's Supplies Index-Pages 4 and 6

Dubois, Pa.



### GOLDFISH · TROPICAL FISH WATER LILIES

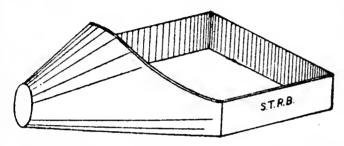
AQUATIC PLANTS—SCAVENGERS—FISH FOODS AQUARIUM ACCESSORIES

"PACIFIC" Products Are Your Protection. Write for Catalog

#### PACIFIC GOLDFISH FARM

Largest Breeders and Distributors of Fancy Goldfish in Western America
P. O. BOX 57, DEPT. S WESTMINSTER, CALIF.





# SEED AND GRAIN SAMPLE PANS

For containing grain or seed after sampling. Advantageous in making analyses and for display. Seamless Wellsville steel—dark blue and non-glaring.

No. 31—12x16x2 in.—3 qts. wheat capacity. Price each, \$1.50; half dozen, \$8.50. Aluminum, same price.

No.  $32-8\frac{1}{2}x12x1\frac{1}{2}$  in.  $-1\frac{1}{2}$  qts. wheat capacity. Price each, \$1.25; half dozen, \$7.00.

# SEED TRADE REPORTING BUREAU

325 W. Huron Street CHICAGO, ILL.



## Year Around Profit Line

Seed dealers need a fill in line for off season months. Miller's high profit "Battle Creek Health Foods for Pets" are steady money makers. Complete samples of Dog, Bird, and Fish Foods will be sent on request.

Inquire about our dealer plan.

# BATTLE CREEK DOG FOOD COMPANY

BATTLE CREEK - - MICHIGAN

# READ SEED WORLD

News and Advertising

for all the latest developments in the Seed Trade Field

#### PETS AND PET SUPPLIES-Concluded

Bird Seed and Supplies—Continued

Peerless Mfg. Co.
Detroit, Mich.
Pet Foods Co. of America
New York, N. Y.
Philadelphia Bird Food Co.
Philadelphia, Pa.
Philadelphia Seed Co.
Philadelphia, Pa.
(See Adv. on Page 26)
Putnam's—Gold and Tropical Fish
Buffalo, N. Y.
Radway-McCullough Seeds, Inc. (Bird
Seed) Seed)

New York City, N. Y.
(See Adv. on Page 63)
Scarlett & Co., Wm. G.
Baltimore, Md.
(See Adv. on Page 40)

Southern's Bird Farm Clifton Hill, Mo. Spratt's Patent, Ltd. Newark, N. J.

Tibor, Kemeny

Budapest, Hungary
(See Adv. on Page 69)
Von Damm, F. H.—Bird Food
Brooklyn, N. Y.

#### DOG FOODS AND SUPPLIES

Battle Creek Dog Food Co.

Battle Creek, Mich.

(See Adv. on Page 149)

Beck Bros. (Dog Collars, etc.)

Herrick, Ill.

Brown Co., Geo. C.

Memphis, Tenn.

Champion Animal Food Co.

Minneapolis. Minn.

Minneapolis, Minn.
Chappell Bros., Inc.
Rockford, Ill.
Glover Co., Inc., H. Clay
New York, N. Y.
Cood Inc.

Good, Inc., James Philadelphia, Pa.

(See Adv. on Page 147) Heger Products Co.

St. Paul, Minn. Imperial Biscuit Co.

Sackets Harbor, N. Y.

Justrite Co.

Milwaukee, Wis.

Kennel Food Supply Co.

Fairfield, Conn.

Dr. Fairfield, Conn.
Le Gear Medicine Co., Dr. L. D. (Remedies)
St. Louis, Mo.
National Pet Shops

St. Louis, Mo.

Nowak Milling Co.

Hammond, Ind.
Old Trusty Dog Food Co.

Needham Heights, Mass.

Perfection Foods Co. Battle Creek, Mich.

Philadelphia Seed Co.

Philadelphia, Pa.
(See Adv. on Page 26)
Putnam's—Gold and Tropical Fish
Buffalo, N. Y.

Richmond, Abattoir Richmond, Va.
Rose & Co., G. P.
Nashville, Tenn.
Scott Co., I. W.
Pittsburgh, Pa.
Simpson Products C

Pittsburgh, Pa.
Simpson Products Co.
Terre Haute, Ind.
Spratt's Patent, Ltd.
Newark, N. J.
Wapler Co., Nicholas
New York, N. Y.

#### DOG REPELLENTS

(See Page 140)

#### GOLD FISH AND SUPPLIES

American Bird Products Co.

Chicago, Ill. Ashbourne Goldfish & Supply Co.

Chicago, Ill.

Ashbourne Goldfish & Supply Co.
Burlington, Iowa

Auburndale Goldfish Co.
Chicago, Ill.

(See Adv. below)

Battle Creek Dog Food Co.
Battle Creek, Mich.
(See Adv. on Page 149)

Bruce Goldfish Fisheries
Thornburg, Iowa

Crescent Fish Farm
New Orleans, La.

Grassyfork Fisheries, Inc. (Shubunkins)
Martinsville, Ind.

Gray, Roger P. (Tropical Fish)
Ojus, Fla.

Japanese Goldfish Hatchery Co.
North Branch, N. J.

Justrite Co., The
Milwaukee, Wis.

Lakeview Ponds, The
Mt. Airy, Cincinnati, Ohio

Loveland Goldfish Farms
Loveland, Ohio

Mt. Parnell Fisheries
Mercersburg, Pa.

Mussog's Bird Store
Philadelphia. Pa.

Mussog's Bird Store Philadelphia, Pa.

National Pet Shops St. Louis, Mo. Pacific Goldfish Farm

Westminster, Cal.
(See Adv. on Page 149)
Pearcy Goldfish Co.
Martinsville. Ind.

Putnam's—Gold and Tropical Fish Buffalo, N. Y.

Spratt's Patent, Ltd. (Supplies)

Newark, N. J.

Spring Lake Fishery

Waldron, Ind.

Tamms Silica Co. (Pebbles)

Chicago, Ill.
Wapler Co., Nicholas
New York, N. Y.
Wells Glass Co. (Colored Glass Chips)
Kokomo, Ind.

Woodford Water Gardens

Van Nuys, Calif.



WHOLESALE CATALOG

# GOLDFISH

**BABY TURTLES, LILIES** AQUATIC PLANTS, SCAVENGERS AND ACCESSORIES

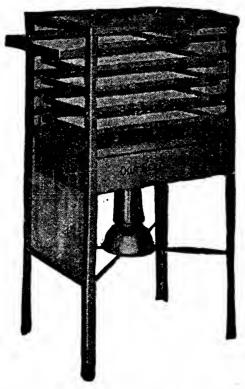
Jobbers of

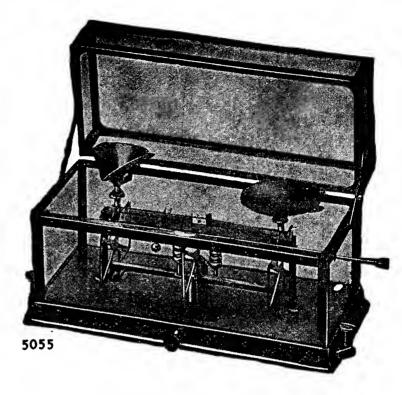
**AQUARIUMS & SUPPLIES** 

AUBURNDALE GOLDFISH CO.

1449 W. MADISON ST. CHICAGO, ILL. TELEPHONE HAYMARKET 0152

# Seed Testing Equipment





#### Sho-Gro Germinators

are Rapid—Reliable—Reasonable. Durably made with glass sides—it is efficient, accurate and makes an attractive display of sprouting seeds that will interest your customers. Blotters are kept moist by evaporation. Has 5 trays 10 x 15 in. Electric or lamp heat. Price with oil heat, \$22.00. Electric (100 or 220 volts), \$28.00. Shipping weight, 95 lbs.

#### Torsion Scale No. 5055

A fine balance for delicate weighing and the analysis of seed and grain. Capacity 120 grams, sensitiveness 2 milligrams. Rider beam 1 gram by .01 gram or if specified, 500 milligrams by 5 milligrams. Size  $13 \times 8\frac{1}{4} \times 6\frac{1}{2}$  inches. Brass weighs in mahogany case 2-20 grams to 1 gram. Price, \$81.00.

#### The New Improved Boerner Seed Sampler

Demonstrations have proved that in order to reduce the size of a representative sample so that a careful analysis may be made some mechanical method must be employed to get accurate results. Several important changes were made to add to the usefulness of this



Around the base of the cone are 44 pockets or openings. The seed falling down the sides of the cone is cut into 44 separate streams, alternating into two streams. The top is removable for cleaning and inspection. The entire bottom section is removable to facilitate cleaning if necessary. section is removable to facilitate cleaning if necessary. The sample pans are more satisfactory and easier to use. The many new improvements add great efficiency to this sampler. Sticking of seeds is entirely eliminated.

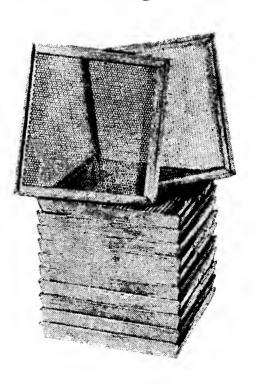
This new type used by the New York State Seed Testing Laboratory at Geneva and recommended by the Association of Official Seed Analysts of North? America.

Made of brass and copper with dull nickel finish.

Height 153% inches. Diameter

with dull nickel finish. Height 15% inches. Diameter at dividing base 6 inches. Net weight 5 lbs. Shipping weight 18 lbs. Price \$37.50 F.O.B. Chicago

#### Seed Dockage Sieves



#### For CLOVERS, TIMOTHY and other SEEDS of SIMILAR SIZES

SIMILAR SIZES

These sieves are correctly made in every particular. The size of the perforations—the accuracy of the construction—the strength—material and workmanship are SEEDBURO quality throughout.

The complete set consists of 12 sieves and solid bottom pan, as follows:

Seven of the sieves have zinc bottoms, with round perforations in size—1/25, 1/20, 1/18, 1/15, 1/19, 7/64, 1/16. Five have woven wire mesh in sizes—6/32, 26/26, 6/24, 4/24, 4/26.

Price, \$9.00 for complete and

Price, \$9.00 for complete set.

Write for full descriptive matter on all seed testing equipment 325 W. Huron Street SEED TRADE REPORTING BUREAU CHICAGO, ILL.

# POULTRY SECTION

#### ITEMS ESSENTIAL TO A COMPLETE POULTRY SUPPLY LINE

Animal Insecticides

Animal Poultry Yeast

Automatic Time Switches

Batteries (Broilers and Poultry Fatten-

Brood Coops (Metal and Wood)

Brooder House Plans

Brooder Stoves (Coal and Oil Burning)

Brooders (Oil and Electric Heated)

Brooders (Feather)

Brooders (Storage)

Burglar Alarms

Buttermilk (Semi-Solid)

Buttermilk (Dried)

Caponizing Sets

Charcoal

Cod Liver Oil

Coops

Chick Boxes

Crates

Disinfectants

Drinking Fountains (Metal and Earthenware, heated, unheated, Thermo-

stat)

Dry Milk

Egg Carriers

Eggs for Hatching

Egg Cartons

Egg Grading Scales

Egg Preservatives

Egg Scales

Egg Testers

Electric Fountain Heaters

Feeders and Mash Hoppers (metal and

wood)

Fencing, Poultry Wire (small and large

mesh)

Glass Substitutes (to admit ultra-violet

rays of sun)

Grit Hoppers

Grit (fine, medium, coarse; hard, sharp,

cubical in shape)

Heat Regulators

Incubators (50 to 500 egg size, electric

hot water, hot air)

Leg Bands (Chick, growing stock and

hen size)

Lice Killers

Meat Scraps

Mite Killers

Nest Eggs

Nests (metal and trap)

Oats Sprouters

Oyster Shell (Reef Brand)

Oyster Shell Hopper

Peat Moss (Poultry House Litter)

Poultry Books

Poultry Feeds (Chick, growing stock,

laying hens)

Pullets, 12, 16 and 18 weeks old

Poultry House Plans

Poultry Punches (web and toe)

Poultry Remedies

Pedigree Egg Baskets

Rat and Mice Killers

Root, Vegetable, Bone and Clover Cut-

ters

Roosts—Vermin Proof

Sprayers (Hand and Power)

Scrapers for Dropping Boards

Toe Pick Preventers

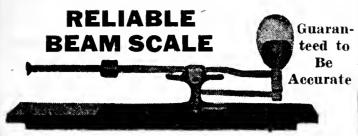
Vaccines

Ventilators

Wafers, Thermostat

Wing Tags

For Sources of Supply on these or other items not listed, Consult our POULTRY SERVICE DEPARTMENT which supplies information and advice without charge.

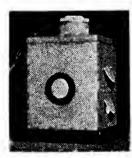


Grades All Eggs Weighing 16 to 32 Ounces to the Dozen. Price \$1.50

Reliable Double Wafer Thermostat Made in 2, 3, 4, and 5 Inch Sizes



Give Name of Incubator and Brooder When Ordering



RELIABLE REFLECTO EGG CANDLER

Electrically Operated Standard Voltage 110 Can Also Furnish for 32 or 220 Voltage

Can Be Attached to Light Socket

Complete with Bulb, Cord and Sockets (110 V.), \$1.30

Write for Our Catalog and Discounts

RELIABLE INCUBATOR & BROODER CO., BOX 60, QUINCY, ILLINOIS

# **DON'T GUESS**

on those incoming samples. **Magnifying Glass** 



Desk Size

The Magnifying Glasses illustrated herewith are especially adaptable for quick and efficient use in the examination of seeds.

The Desk Glass is of solid brass, the focus adjustment being made by screw threads. The lens is of correct power for close examination of seeds. Diameter of lens, 1 inch. of seeds. D lens, 1 inch.

The Pocket
Glass is a very
handy instrument, folding
neatly in a
hard rubber case. Diameter of lens, 1½ inches.
The case protects the lens from scratching and
could be dropped on stone floor without breaking.

#### SEED TRADE REPORTING BUREAU

325 W. Huron St. • Chicago, Illinois

# ACME NICOTINE POULTRY **DELOUSER**

... spreads farther ... costs less . . . lasts longer



## —and pays you a better profit on every sale

Lice and mites leave town in a hurry when the new Acme Nicotine Poultry Delouser enters the henhouse. A special patented formula slows down the fuming of the delouser, thereby keeping it active and effective much longer than with an ordinary volatile liquid that evaporates quickly.

No wonder that Acme Delouser sells on sight! It stays effective longer, costs less to apply, and kills just as surely. Also can be used as an excellent contact spray against aphis on flowers and vegetables. Harmless to vegetation and leaves no odor.

Attractively packed in 2 oz. handy collapsible tubes, and in pint, quart and gal-Tubes retail for 35c, lon containers. larger cans proportionately. Mail coupon for full information to

#### Acme White Lead & Color Works

Insecticide Division Detroit, Michigan

Acme White Lead & Color Works Insecticide Division 8290 St. Aubin Ave. Detroit, Mich.		
Gentlemen: Please send us full information and dealer discounts on your Nicotine Poultry Delouser.		
Name		
Address		
CityState		

#### POULTRY SUPPLIES

# BABY CHICKS BABY CHICKS Ada Baby Chick Hatchery Ada, Ohio Atz Blue Mound Hatchery Co. Milltown, Ind. Barr & Son, P. Zeeland, Mich. Berry's Poultry Farm Clarinda, Iowa Capital Poultry Farm & Hatchery Columbia, S. C. Clover Valley Poultry Farm & Hatchery Ramsey, Ind. Davis Poultry Farm Ramsey, Ind. Hoosier Chick Hatchery Indianapolis, Ind. Illinois Hatchery Illinois Hatchery Metropolis, Ill. Johnson Hatchery. Alf. Leonardville, Kan. Lakeview Poultry Farm Lakeview Poultry Farm Holland, Mich. Maplewood Hatchery Lanesville, Ind. Marion Hatcheries Marion, Ohio Meadow View Hatchery St. Peter, Minn. Miller Hatcheries, Inc. Lancaster, Mo. Moweaqua Seed Co. Hatchery Moweaqua, Ill. Reinhart's Hatchery New Salisbury, Ind. Rural Poultry Farm Zeeland, Mich. Russell Hatchery Corvallis, Ore.

#### BABY CHICK BOXES

Anderson Box Co.
Indianapolis, Ind.
Illinois Supply Co.
Aurora, Ill.
Keipper Cooping Co.
Milwaukee, Wis.

Corvallis, Ore.
Smith Chickeries
Mexico, Mo.
Sterling Hatchery
Ramsey, Ind.

Ramsey, Ind. Sunshine Hatcheries

Corydon, Ind. Triple "C" Hatcheries

Centerville, Iowa Van Wert Hatchery Van Wert, Ohio

#### **BROODERS**

(Coal, Oil Burning, Feather, Gas and Electric)

Anderson Box Co. Indianapolis, Ind. Brower Mfg. Co.
Quincy, Ill.
Buckeye Incubator Co.
Springfield. Ohio
General Metalware Corp.
Minneapolis Minn Minneapolis, Minn. Minneapolis, Minn.

Hoeft & Co.
North Chicago, Ill.
(See Adv. on Page 155)

Hudson Mfg. Co., H. D.
Chicago, Ill.
(See Adv. on Page 119)

Illinois Supply Co.
Aurora, Ill.

James Mfg. Co.
Fort Atkinson, Wis.

Oakes Mfg. Co.
Tipton, Ind.

Phelan Brooder Co. Phelan Brooder Co.
Oklahoma City, Okla.
Poorman, John G. (Feather)
Tinley Park, Ill.
Putnam, Inc., I.
Elmira, N. Y.

Reliable Incubator & Brooder Co. Quincy, Ill. (See Adv. on Page 153) Sheer Co., H. M.
Quincy, Ill.
Simplex Brooder Stove Co.
Grand Rapids, Mich.
Trumbull Electric Mfg. Co.
Plainville Conu. Plainville, Conn. **BROODERS—STORAGE** Ball-Biddle Co.
Riverton, N. J.
Anderson Box Co.
Indianapolis, Ind.
Buckeye Incubator Co.
Springfield, Ohio
Oakes Mfg. Co.
Tipton, Ind.
Reliable Incubator & Brooder Co.
Oningy, Ill. Quincy, Ill. (See Adv. on Page 153)

#### CARBOLINEUM

(See Creosote Products)

#### CHARCOAL

Chesmore Seed Co. St. Joseph, Mo.
Gulf City Mfg. Co.
Mobile, Ala.
Tennessee Eastman Corp. Kingsport, Tenn. Wittig Co., F. Milwaukee, Wis.

#### CHICKEN MITE KILLER

CHICKEN MITE ALLEN
C-A Wood Preserver Co.
St. Louis, Mo.
(See Adv. on Page 155)
Carbolineum Wood Preserving Co.
Milwaukee, Wis.
Electric Sprayit Co.
South Bend, Ind.
Goulard & Olena, Inc.
New York, N. Y.
(See Adv. on Page 145)

#### CONCENTRATED COD LIVER OIL

Health Products Co. Newark, N. J. National Oil Products Co. Harrison, N. J.

#### CREOSOTE PRODUCTS

C-A Wood Preserver Co. St. Louis, Mo.

(See Adv. on Page 155)

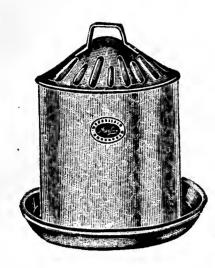
Carbolineum Wood Preserving Co.

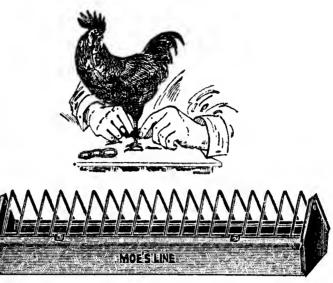
Milwaukee, Wis.

#### DISINFECTANTS

Aeroil Burner Co.
West New York, N. J.
Ansul Chemical Co.
Marinette, Wis.
Carbola Chemical Co. Carbola Chemical Co.
Natural Bridge, N. Y.
C-A Wood Preserver Co.
St. Louis, Mo.
(See Adv. on Page 155)
Chipman Chem. Co., Inc.
Bound Brook, N. J.
Conkey Co., G. E.
Cleveland, Ohio
Duggar Mfg. Co., L. G.
Hope Hull, Ala.
Electric Sprayit Co.
South Bend, Ind.
General Laboratories, Inc.
Philadelphia, Pa.
Good, Inc., James
Philadelphia, Pa.
(See Adv. on Page 147)
Goulard & Olena, Inc.
New York, N. Y.
(See Adv. on Page 145)
Grasselli Chemical Co. Grasselli Chemical Co. Cleveland, Ohio
(See Adv. on Second Cover).

# POULTRY SUPPLIES







Moe's Line—Always a symbol of Excellence and Value in Poultry Equipment.

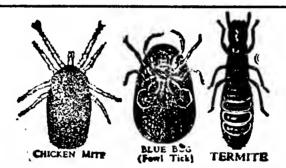
A big complete line of Feeders, Waterers, etc. Everything needed, and the success of the many Seed Dealers now selling Moe's Line is proof of its superior quality and national popularity. Write for Catalog and Prices.

# HOEFT & COMPANY

2311 Davis Street

North Chicago, III.

# KILL





"Uncle Sam" cannot spray your poultry houses, yet he has recommended what to use. U. S. Farm Bulletins 801 and 1070 show that pure honest ANTHRACENE OIL Carbolineum outlasts any other product when used to kill mites and blue bugs. Most State Experiment Stations also recommend it.

We have sold it for 48 years. Ours is the only one in the world guaranteed by affidavit to be like that recommended by the Government. It is not adulterated. LASTS FROM 1 TO 3 YEARS. Kills termites; also stops the rot of wood. Write us for prices and samples.

C-A WOOD PRESERVER CO., 6624 Delmar Blvd., ST. LOUIS, MISSOURI

### MORE THAN 12,500,000 BUYERS

of seeds, plants, bulbs, nursery stock, pets and pet supplies, poultry supplies and various accessories, are patrons of SEED WORLD readers.

#### POULTRY SUPPLIES-Continued

EGG SCALES Disinfectants—Continued LeGear Medicine Co., Dr. L. D.
St. Louis, Mo.
Merck & Co., Inc.
Rahway, N. J.
Nicotine Mfg. Co.
Henderson, Ky.
Rohm & Haas Co., Inc.
Philadelphia, Pa.
(See Adv. on Page 145)
Shepard Laboratories
Council Bluffs. Iowa Brower Mfg. Co. Quincy, Ill. Reliable Incubator & Brooder Co. Quincy, III.

(See Adv. on Page 153)
Specialty Mfg. Co.
St. Paul, Minn. EGG TESTERS Reliable Incubator & Brooder Co. Quincy, Ill. (See Adv. on Page 153) Council Bluffs, Iowa Sherwin-Williams Cleveland, Ohio
Smith & Co., D. B.
Utica, N. Y.
Sterilac Co., The
North Chicago, Ill.

Tobacco By-Products and Chemical Corp.
Louisville, Ky.
(See Adv. on Pages 140-142-157-FEED—POULTRY Ackerman Company
Lima, Ohio
(See Adv. on Page 27) (See Adv. on Page 27)
Allied Mills
Chicago, Ill.
American Dry Milk Institute
Chicago, Ill.
Badenoch Co., J. J.
Chicago, Ill.
Blamberg Bros., Inc.
Baltimore, Md.
(See Adv. on Page 23)
Chapin & Co.
Hammond, Ind.
Conkey Co., G. E.
Cleveland, Ohio
Darling & Co.
Chicago, Ill.
Dickinson Co., The Albert
Chicago, Ill.
(See Adv. on Page 13)
Goldberg Seed & Feed Co. (See A 159 DRINKING FOUNTAIN
Anderson Box Co.
Indianapolis, Ind.
Baier Bros. Mfg. Co.
Cissna Park, Ill.
Brower Mfg. Co.
Quincy, Ill.
Cyclone Mfg. Co., The
Urbana, Ind.
Felker, C. H.
Boston, Mass.
Hall Mfg. Co.
Cedar Rapids, Iowa
Hoeft & Co., Inc.
North Chicago, Ill.
(See Adv. on Page 155)
Hudson Mfg. Co., H. D.
Chicago, Ill.
(See Adv. on Page 119)
Illinois Supply Co.
Aurora, Ill.
James Mfg. Co.
Ft. Atkinson, Wis.
Mit-Shel Stamping Mfg. Co.
Quincy, Ill.
National Poultry Band Co.
Newport, Ky.
Oakes Mfg. Co.
Tipton, Ind.
Phelan Brooder Co.
Oklahoma City, Okla.
Reliable Incubator & Brooder Co.
Quincy, Ill.
(See Adv. on Page 153) DRINKING FOUNTAINS (See Adv. on Page 132)
Goldberg Seed & Feed Co.
Fargo, N. D.
Happy Feed Mills, Inc.
Memphis, Tenn.
Health Products Corp. (Clo-Trate)
Newark, N. J.
Hoeft & Co. Hoeft & Co.
North Chicago, Ill.
(See Adv. on Page 155)
Kalo Co. (Mineral Feeds) Kalo Co. (Mineral Feeds)
Quincy, Ill.
(See Adv. on Page 135).
Krause Milling Co.
Milwaukee, Wis.
Marden-Wild Corp. (Cod Liver Oil)
Somerville, Mass.
Mead, Johnson & Co.
Evansville, Ind.
Minneapolis Seed Co.
Minneapolis, Minn.
(See Adv. on Page 61)
National Oil Products Co. (Cod Liver Oil)
Harrison, N. J.
Northrup, King & Co.
Minneapolis, Minn.
(See Adv. on Page 5)
Northwestern Yeast Co. (Yeast)
Chicago, Ill.
Nowak Milling Co.
Hammond, Ind.
Ouren Seed Co.
Council Bluffs, Iowa Reliable Incubator & Brooder Councy, III.

(See Adv. on Page 153)
Sheer Co., H. M.
Quincy, III.
Simplex Brooder Stove Co.
Grand Rapids, Mich.
Thompson & Sons, O. E.
Ypsilanti, Mich.
(See Adv. on Page 139)
EGG CARTONS
Egge Safety Carton Co. EGG CARTONS

Egg Safety Carton Co.
Chicago, Ill.

Hoeft & Co.
North Chicago, Ill.
(See Adv. on Page 155)

Illinois Supply Co.
Aurora, Ill.

Metal Egg Crate Co.
Fredericksburg, Va.
Safe-Service Egg Case Co.
Three Rivers, Mich.

Self Locking Carton Co.
Chicago, Ill.

Standard Trunk Mfg. Co. (Fibre)
New York, N. Y.

Surety Egg Box Co.
Hohokus, N. J.

EGG PRESERVATIVE Ouren Seed Co.
Council Bluffs, Iowa
(See Adv. on Page 59)
Philadelphia Seed Co. Philadelphia, Pa.
(See Adv. on Page 26)

Pratt Food Co.
Philadelphia, Pa.

Radway-McCullough Seeds, Inc.
New York City, N. Y.
(See Adv. on Page 63)

Ralston Puring Co. Ralston Purina Co.
St. Louis, Mo.
Scarlett & Co., Wm. G.
Baltimore, Md. (See Adv. on Ubiko Milling Co. Cincinnati, Ohio ee Adv. on Page 40) EGG PRESERVATIVES California Egg Preserver Co.
San Francisco, Calif.
Goulard & Olena, Inc.
New York, N. Y.
(See Adv. on Page 145)
Mechling Bros. Chemical Co.
Camden, N. J.
(See Adv. on Page 121) Vitality Mills
Chicago, Ill.
Wells Milling Co., A. G.
Depere, Wis.
Wilson & Co., Inc.
Chicago, Ill.
Wood & Sons, T. W.
Richmond, Va.

#### POULTRY SUPPLIES—Continued

#### FEED HOPPERS

Anderson Box Co.
Indianapolis, Ind.
Cyclone Mfg.-Co., The
Urbana, Ind.
Hoeft & Co., Inc.
North Chicago, Ill.
(See Adv. on Page 155)
Hudson Mfg. Co., H. D.
Chicago, Ill.
(See Adv. on Page 119)
James Mfg. Co.
Ft. Atkinson, Wis.
Mit-Shel Stamping Mfg. Co.
Quincy, Ill.

Quincy, Ill.
Oakes Mfg. Co.
Tipton, Ind.
Reliable Incubator & Brooder Co.

Quincy, Ill.

(See Adv. on Page 153)

Thompson & Sons, O. E.

Ypsilanti, Mich.

(See Adv. on Page 139)

FLOAT VALVES

Reliable Incubator & Brooder Co. Quincy, Ill.

(See Adv. on Page 153)
FOOD COOKER
Reliable Incubator & Brooder Co.

Quincy, III.
(See Adv. on Page 153)
GLASS—POULTRY HOUSE

Acetol Products Co.
Wilmington, Del.
Allen Brothers, Inc.
Omaha, Nebr.
Fleming Bros.
Chicago, Ill.
Flex-O-Glass Mfg. Co.
Chicago, Ill.
Hoeft & Co., Inc.
North Chicago, Ill.
(See Adv. on F

(See Adv. on Page 155)

Turner Bros.

Bladen, Neb.

Vitalite Co.
New York, N. Y.
GRIT

Limestone Products Corp. of America Newton, N. J. Louisiana Crushing Co.

Houma, La. Ohio Marble Co. Piqua, Ohio

**INCUBATORS** 

Automatic Incubator Co.

Delaware, Ohio
Buckeye Incubator Co.
Springfield, Ohio
Bundy Incubator Co.
Springfield, Ohio

Springfield, Onto

Hoeft & Company, Inc.
North Chicago, Ill.
(See Adv. on Page 155)

James Mfg. Co.
Ft. Atkinson, Wis.
Oakes Mfg. Co.
Tipton, Ind.
Petersime & Son, Ira M.
Gettysburg, Ohio

Reliable Incubator & Brooder Co.

Quincy, III.

(See Adv. on Page 153)

Smith Incubator Co.
Cleveland, Ohio

Smith Co., Wellington J.
Cleveland, Ohio

#### LEG BANDS

Hoeft & Co., Inc.
North Chicago, Ill.
(See Adv. on Page 155)
National Poultry Band Co.
Newport, Ky.
Oakes Mfg. Co.
Tipton, Ind.
Reliable Incubator & Brooder Co.
Oningy Ill

Quincy, Ill. (See Adv. on Page 153)

#### LICE KILLERS

Acme White Lead & Color Works Detroit, Mich.

(See Adv. on Page 153)

"Black Leaf 40"

"Black Leaf 40"
Tobacco By-Products & Chemical Corp.
Louisville, Ky.
(See Adv. on Pages 140-142-157-159)
Burrell-Dugger Co.
Indianapolis, Ind.
Good, Inc., James
Philadelphia, Pa.
(See Adv. on Page 147)
Goulard & Olena, Inc.
New York, N. Y.
(See Adv. on Page 145)
Lee Co., Geo. H.

Lee Co., Geo. H.
Omaha, Neb.
LeGear Medicine Co., Dr. L. D.
St. Louis, Mo.
Merck & Co., Inc.
Rahway, N. J.
National Poultry Band Co.
Newport, Ky.

Newport, Ky.

Nicotine Mfg. Co. Henderson, Ky. Shepard Laboratories Council Bluffs, Iov Iowa

Smith & Co., D. B.
Utica, N. Y.
Uniform Products Co.
New York, N. Y.

#### MARKING PUNCHES

Bayerdorfer, M.

Huguenot Park, N. Y.

Huguenot Park, N. 1.

Hoeft & Co.
North Chicago, Ill.
(See Adv. on Page 155)

National Poultry Band Co.
Newport, Ky.

Reliable Incubator & Brooder Co.

Quincy, Ill. (See Adv. on Page 153)

#### MEAT SCRAPS

Badenoch Co., J. J. Chicago, Ill.

Chicago, Ill.
Conkey Co., The G. E.
Cleveland, Ohio

Darling & Co. Chicago, Ill.

# HILE YOU'RE AT IT EM A "Black Leaf 40" spread lightly on perches gives a clean-up of body lice and feather mites of poultry. "Black Leaf 40" contains plenty of nicotine to kill adult lice and there will be enough remaining on the perches to kill young lice as they hatch. Under ordinary conditions lice hatch in from seven to ten days—thus "Black Leaf 40" gives a thorough clean-up. A drop on the back of bird's necks kills head lice. When you sell "Black Leaf 40" you are selling satisfaction and repeat orders. KILLS BOTH YOUNG AND ADULT LICE ON POULTRY

TOBACCO BY-PRODUCTS & CHEMICAL CORP., INC., LOUISVILLE, KENTUCKY Advertisers Index-Page 180

#### POULTRY SUPPLIES—Continued

Meat Scraps—Continued Reading Bone Fertilizer Co.
Reading, Pa.
Stadler Products Co.
Cleveland, Ohio
Swift & Co. Chicago, Ill. Wilson & Co., Inc. Chicago, Ill.

#### NESTS

Brower Mfg. Co. Quincy, Ill. Hoeft & Co., Inc.
North Chicago, III.
(See Adv. on Page 155)
Illinois Supply Co.
Aurora, Ill. Nieman Bros. Mfg. Co.
Mt. Olive. Ill.
Oakes Mfg. Co.
Tipton, Ind.
Reliable Incubator & Brooder Co. Quincy, Ill. (See Adv. on Page 153)

#### NEST EGGS

Hoeft & Co., Inc.
North Chicago, III.
(See Adv. on Page 155)
Illinois Supply Co.
Aurora, Ill.
Opal Glass Co.
Fairmont, W. Va.
Reynolds Mfg. Co.
Fredericktown, Ohio
Wood & Sons, T. W.
Richmond, Va.

#### OYSTER SHELLS

Badenoch Co., J. J.
Chicago, Ill.
Conkey Co., The G. E.
Cleveland, Ohio
Oyster Shell Prod. Corp.
New York, N. Y.
Peerless Oyster Co.
Baltimore, Md.

PIGEON SUPPLIES

Bayerdorfer, M.

Huguenot Park, N. Y.

Blamberg Bros., Inc.

Baltimore, Md.

(See Adv. on Page 23)

Conkey Co., The G. E. (Feeds)

Cleveland, Ohio

Cyclone Mfg. Co., The

Urbana. Ind.

Dickinson Co., The Albert (Feeds)

Chicago, III.

(See Adv. on Page 132)

Hews & Co., A. H. (Nests)

Cambridge, Mass.

Illinois Supply Co.

Aurora, Ill.

Mussog's Bird Store

Philadelphia, Pa.

National Pet Shops

St. Louis, Mo.

Nowak Milling Co. (Feed)

Hammond, Ind.

Philadelphia Seed Co. (Feed)

Philadelphia, Pa.

(See Adv. on Page 26)

Reliable Incubator & Brooder Co.

Quincy, III.

(See Adv. on Page 153)

Scarlett & Co., Wm. G.

Baltimore, Md.

(See Adv. on Page 40)

POULTRY LITTER PIGEON SUPPLIES

#### POULTRY LITTER

Albers Bros. Mlg. Co.
San Francisco, Cal.
Anderson Box Co.
Indianapolis, Ind.
Atkins & Durbrow, Inc.
New York, N. Y.
(See Adv. on Page 129)
Bremermann & Co., Ernst
New York, N. Y.

Klein Mfg. Co.
Burlington, Iowa
Julius Loewith, Inc.
New York, N. Y.
(See Adv. on Page 63)
Peat Import Corp.
New York, N. Y.
Phillips, C. J.
St. Louis, Mo.
Premier Peat Moss Corp.
New York, N. Y.
Scarlett & Co., Wm. G.
Baltimore, Md.
(See Adv. on Page 40)
The O. K. Co.
New York, N. Y.
Wilber-Ellis
San Francisco, Cal. Klein Mfg. Co. San Francisco, Cal.

POULTRY REMEDIES American Dry Milk Institute Chicago, Ill. Atlanta Chemical Co. American Dry Milk Institute
Chicago, Ill.
Atlanta Chemical Co.
Atlanta, Ga.
Barnes Emulsion Co.
Gardena, Calif.
Bee Dee Stock Medicine Co.
Chattanooga, Tenn.
"Black Leaf 40"
Tobacco By-Products & Chemical Corp.
Louisville, Ky.
(See Adv. on Pages 140-142-157-159)
Burrell-Dugger Co.
Indianapolis, Ind.
Carbola Chemical Co.
Natural Bridge, N. Y.
Carbolineum Wood Preserving Co.
Milwaukee, Wis.
Chic-Tone Co., Inc.
Augola, Ind.
Columbus Vaccine Co.
Columbus, Ohio
Conkey Co., G. E.
Cleveland, Ohio
French Co., R. T.
Rochester, N. Y.
General Laboratories, Inc.
Philadelphia, Pa.
Germo Mfg. Co.
St. Louis, Mo.
Gland-O-Lac Co.
Omaha, Neb.
Glover Co., Inc., H. Clay
New York, N. Y.
Good, Inc., James
Philadelphia, Pa.
(See Adv. on Page 147)
Hess & Clark, Inc., Dr.
Ashland, Ohio
Kalo Co.
Quincy, Ill.
(See Adv. on Page 135) Ashland, Ohio
Kalo Co.
Quincy, III.
(See Adv. on Page 135)
Lee Co., Geo. H.
Omaha, Neb.
LeGear Medicine Co., Dr. L. D.
St. Louis, Mo.
Magic Stock Remedy Co., Inc.
Chattanooga, Tenn.
Old Kentucky Mfg. Co.
Paducah, Ky.
Pratt Food Co.
Philadelphia, Pa.
Russell Co., I. D.
Kansas City. Mo.
Salsbury, Dr. J. E.
Charles City, Iowa
Sheer Co., H. M.
Quincy, III.
South Mountain Hennery Co., The
Middletown, Md.
Standard Chem. Mfg. Co.
Omaha, Nebr.
Trengove Poultry Farm
Portland, Ore.
Wood & Sons, T. W.
Richmond, Va.

#### POULTRY HOUSES

Beck Bros. Herrick, Ill.

#### POULTRY SUPPLIES—Concluded

#### RABBIT SUPPLIES

Goulard & Olena, Inc.
New York, N. Y.
(See Adv. on Page 145)
Illinois Supply Co.
Aurora, Ill.
Root Co. of Iowa, A. I.
Council Bluffs, Iowa

#### SCRAPERS—DROP BOARD

C-K-R Co. Cleveland, Ohio Reliable Incubator & Brooder Co.

Quincy, Ill. (See Adv. on Page 153)

#### SODIUM FLUORIDE

Burrell-Dugger Co.
Indianapolis, Ind.
Carbolineum Wood Preserving Co.
Milwaukee, Wis.

Goulard & Olena, Inc.
New York, N. Y.
(See Adv. on Page 145)
Grasselli Chemical Co., The
Cleveland, Ohio

(See Adv. on Second Cover)

Merck & Co., Inc.
Rahway, N. J.
Virginia-Carolina Chemical Corp. Richmond, Va

TOBACCO POWDER

Goulard & Olena, Inc.
New York, N. Y.
(See Adv. on Page 145)
Nicotine Production Corp.
Clarksville, Tenn.

Tobacco By-Products & Chemical Corp.

Louisville. Ky. (See Adv. on Pages 140-142-157-159)

Uniform Products Co. New York, N. Y.

#### WORM MEDICINE

Barnes Emulsion Co.
Gardena, Calif.
Le Gear Medicine Co., Dr. L. D.
St. Louis, Mo.
Merck & Co., Inc.
Rahway, N. J.
Pratt Food Co.
Philadelphia, Pa.
Tobacco By-Products & Chem.

Tobacco By-Products & Chem. Corp.

Louisville, Ky. (See Adv. on Pages 140-142-157-159)

#### STOCK FOODS AND REMEDIES

#### STOCK FOODS

Allied Mills

Chicago, Ill.
American Dry Milk Institute
Chicago, Ill.
Badenoch Co., J. J.
Chicago, Ill.
Blatchford Calf Meal Co.
Waukegan, Ill.
Conkey Co., G. E.
Cleveland, Ohio
Dairy Association Co., Inc.
Lyndonville, Vt.
Happy Feed Mills, Inc.
Memphis, Tenn.
International Sugar Feed Co.
Minneapolis, Minn.
Kalo Company Chicago, Ill

Kalo Company

Wilson & Co., Inc. Chicago, Ill.

#### STOCK REMEDIES

Blackman Stock Remedy Co.
Chattanooga. Tenn.
Dairy Association Co.
Lyndonville, Vt.
Fleming Bros.
Chicago, Ill.
Gland-O-Lac Co.
Omaha. Neb.

Gland-O-Lac Co.
Omaha, Neb.
Glover Co., Inc., H. Clay
New York. N. Y.
Goulard & Olena, Inc.
New York, N. Y.
(See Adv. on Page 145)
Hess & Clark, Inc., Dr.
Ashland, Ohio

Kalo Company

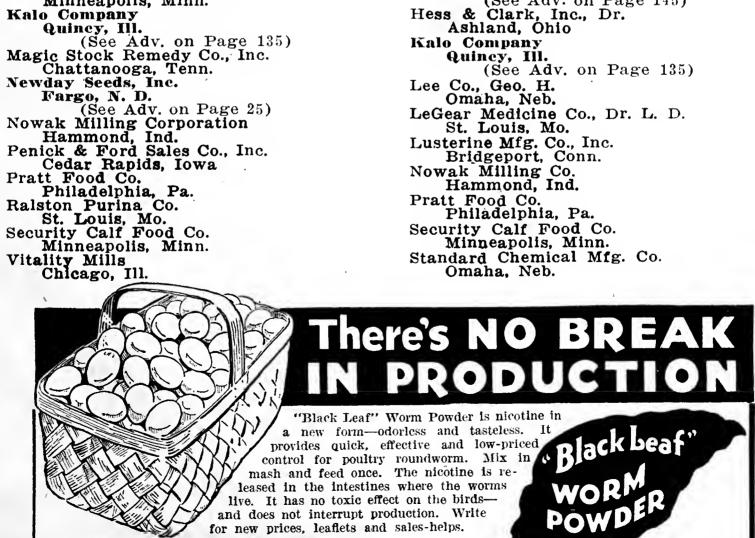
Quincy, Ill.
(See Adv. on Page 135)

Lee Co., Geo. H.
Omaha, Neb.
LeGear Medicine Co., Dr. L. D.
St. Louis, Mo.

Lusterine Mfg. Co., Inc. Bridgeport, Conn. Nowak Milling Co. Hammond, Ind.

Pratt Food Co. Philadelphia, Pa.

Security Calf Food Co.
Minneapolis, Minn.
Standard Chemical Mfg. Co. Omaha, Neb.



TOBACCO BY-PRODUCTS & CHEMICAL CORP., INC. Louisville, Kentucky.

#### MISCELLANEOUS SIDE LINES

#### BEE SUPPLIES

Dadant & Sons
Hamilton, Ill.
Kilgore Seed Co.
Plant City, Fla.
Leahy Mfg. Co.
Higginsville, Mo.
Lewis Co., G. B.
Watertown, Wis.

Watertown, Wis.

Root Co., A. I.

Medina, Ohio

(See Adv. on Page 161)

Root Co. of Iowa, A. I.

Council Bluffs, Iowa.

Scott Co., I. W.

Pittsburgh, Pa.

#### **BOOKS ON FARMING AND** GARDENING

DeLaMare Co., Inc., A. T.

New York City, N. Y.

Doubleday, Doran & Co.

Garden City, N. Y.

Lippincott Co., J. B.

Philadelphia, Pa.

Little, Brown & Co.

Boston, Mass.

MacMillan Co., The

New York City, N. Y.

Orange Judd Publ. Co., Inc.

New York City, N. Y.

#### BOWLS—BULB

BOWLS—BUL

Brush Pottery Co.
Zanesville, Ohio

Haeger Potteries
Dundee, Ill.

Louisville Pottery Co., Inc.
Louisville, Ky.

Paducah Pottery Co.
Paducah, Ky.

Pittsburg Pottery Co.
Pittsburg, Kan.

Roseville Pottery Co.
Zanesville, Ohio

Uhl Pottery Co.
Evansville, Ind.

Wells Glass Co. (Colored G.
Kokomo, Ind.

Western Stoneware Co.
Monmouth, Ill. (Colored Glass Chips) Monmouth, Ill. e Pottery Co. Zane Pottery Co. So. Zanesville, Ohio

#### BRAIDS—TYING

Fricke Co., J. E. Philadelphia, Pa.

#### DAIRY SUPPLIES

Cherry-Burrell Corp.
New York, N. Y.
Creamery Package Mfg. Co.
New York, N. Y.
Duggar Mfg. Co., L. G.
Hope Hull, Ala.
Pilling & Son Co., G. P.
Philadelphia, Pa.
Pratt Mfg. Co., Wm. E. Pratt Mfg. Co., Wm.
Joliet, Ill.
Toledo Bottle Cap Co.
Toledo, Ohio

#### FLOWERS—ARTIFICIAL

Adler-Jones Co. Chicago, Ill. DeWitt Sisters Battle Creek, Mich.

#### FRUIT GRADERS

Oliver Mfg. Co. St. Louis, Mo. (See Adv. on Page 55)

#### GARDEN GLOVES

National Glove Co. Columbus, Ohio

#### GLOBES (GAZING)

Express Body Corp.
Crystal Lake, Ill.
Putnam's—Gold and Tropical Fish
Buffalo, N. Y. Buffalo, N. Y.
Testrite Instrument Co. (Also Sun Dials)
New York, N. Y.
Western Stoneware Co. Monmouth, Ill.

#### HANGING BASKETS

Michigan Wire Goods Co. Niles, Mich. (See Adv. on Page 139)
Miller & Doing
Brooklyn, N. Y.
Pittsburg Pottery Co.
Pittsburg, Kan. Raedlein Basket Co. Chicago, Ill. Savo Mfg. Co.
Chicago, Ill.
Western Stoneware Co.
Monmouth, Ill.

#### MUSHROOM SPAWN

American Spawn Co.
St. Paul, Minn.
Chester County Mushroom Laboratories
West Chester, Pa.
Jacob, Inc., Edward H.
West Chester, Pa.
Lambert, L. F.
Coatesville, Pa.

#### HOTKAPS

Germain Seed & Plant Co. Los Angeles, Calif. (See Adv. on Page 161)

#### RAFFIA

Kilgore Seed Co.
Plant City, Fla.
King & Walters, Inc.
New York, N. Y.
Loewith, Inc., Julius
New York City, N. Y.
(See Adv. on Page 63)
McHutchison & Co.
New York, N. Y. New York, N. Y.

(See Adv. on Page 161)

Meehan Co., Thomas B.

Dresher, Pa.

Schoorl, Adrian J.

San Francisco, Cal.

#### SCOOPS

Michigan Wire Goods Co. (Wire)
(Potato, Corn, Apple)
Niles, Mich. (See Adv. on Page 139)

#### SEED TESTING

Commercial Seed Laboratory
Washington, D. C.
International Seed Service, Inc.
New York. N. Y.
(See Adv. on Page 59)
National Seed Laboratory
Toledo, Ohio

#### SOIL STERILIZERS

Aeroil Burner Co., Inc. West New York, N. J., Chicago & San Francisco er Semesan Co. Wilmington, Del Bayer Grasselli Chemical Co.
Cleveland, Ohio
(See Adv. on Second Cover)
General Chemical Co.
New York, N. Y.
Hammond Paint & Chem. Co.
Beacon, N. Y. Beacon, N (See Adv. on Page 143)

# Sell Root Quality Bee Supplies

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A side line that brings new customers into your store. Big 64 page catalog free for store inquiries. Get in our line-up of Root dealers for 1935 and benefit by our listing your name in our catalog.

Write for our advertising proposition in your seed catalog.

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Medina, Ohio
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(Page Facing Inside Back Cover)

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or LESS

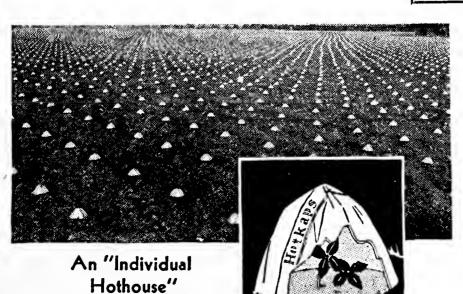
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3 WEEKS EARLIER

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741-747 Terminal Street,
Los Angeles, Calif.

#### MISCELLANEOUS SIDE LINES—Concluded

SOIL TESTERS

Dickinson Co., The Albert Chicago, III. (See Adv. on Page 132) Earp-Thomas Laboratory Bloomfield, N. J.

TAPES-TYING

Fricke Co., J. E. (Tying and Gummed) Philadelphia, Pa.

TREE PROTECTION

Davey Tree Expert Co. (Surgeons) Kent, Ohio

Hammond Paint & Chem. Co. (Tree Wound

Paint) Beacon, N. Y.

Owens Co., J. L.
Minneapolis, Minn.
Tanglefoot Co., The
Grand Rapids, Mich.

TWINE-SEWING AND TYING

Bemis Bro. Bag Co. St. Louis, Mo.

(See Adv. on Page 1)

Chase Bag Co. Cleveland, Ohio

Fricke Co., J. E.
Philadelphia, Pa.
Southern Cotton Mills Agency Baltimore, Md.

TWINE-BINDER AND WRAPPING

Fricke Co., J. E. Philadelphia, Pa.

TYING MACHINES

Bunn Co., B. H. (Package Tying Machines)
Chicago, Ill.
Felins Tying Machine Co.
Milwaukee, Wis.

National Bundle Tyer Co. (Vegetable)
Blissfield, Mich.
Tie Company, The
Unadilla. N. Y.

WEED BURNERS

Aeroil Burner Co., Inc. West New York, N. J., Chicago &

San Francisco

XMAS GREENS

Chesmore Seed Co.
St. Joseph, Mo.
Conwell, Inc., H. Ernest
Milton, Del.
Diamond State Evergreen Co.
Milton, Del.
Jones, The Holly Wreath Man
Milton, Del.
Neilson Knud

Jones, The Milton,

Neilson, Knud
Evergreen, Ala.
Platten's Christmas Trees, Inc.
Green Bay, Wis.
Quality Seed House (Mistletoe)
Chickasha, Okla.

E. C. Robbins
Pineola, N. C.
Sioux City Seed Co.
Sioux City, Iowa
(See Adv. on Pages 73 and 95)

XMAS TREE HOLDERS

Arcade Mfg. Co.
Freeport, Ill.
Campbell-Hausfeld Co., The

Campbell-Hausfeld Co., The
Harrison, Ohio
(See Adv. on Page 147)
Chesmore Seed Co.
St. Joseph, Mo.
Clark Mfg. Co., The
Philadelphia, Pa.
Interstate Specialty Co.
North Manchester, Ind.
Root Co. of Iowa, A. I.
Council Bluffs, Iowa

### SEEDSMEN'S SUPPLIES

#### ACCOUNTANTS AND ACCOUNTING SYSTEMS

Ernst & Ernst New York, N. Y.

ADV. FOR SEEDSMEN

Benton Review Shop

Fowler, Ind.

DeLaMare Co., Inc., A. T.

New York, N. Y.

Dubois Press

Rochester, N. Y.

McFarland Publicity Service

Harrishurg Pa

McFarland Publicity Service
Harrisburg, Pa.

Morse Co., A. B.
St. Joseph, Mich.
Pitts Studios, Inc. (Cuts and Photos)
Rochester, N. Y.
Rochester Litho. Co.
Rochester, N. Y.
Wallace-Homestead Co.
Des Moines, Iowa

Des Moines, Iowa

ALFALFA MILLS

Sedberry, Inc., J. B. Utica, N. Y.

(See Adv. on Page 167)

**APRONS** 

Atlantic Mfg. Co. (Leather)
Wilmington, Del.
Windermere Products Mfg. Co. (Rubber)
Cleveland, Ohio

BAG CLEANERS

Oliver Mfg. Co.

St. Louis, Mo. (See Adv. on Page 55)

BAG CLOSING MACHINES

Arnold Schuyler

Coldwater. N. Y. (See Adv. on Page 163)

Brown Bag Filling Machine Co.
Fitchburg, Mass.
(See Adv. on Page 163)
Bates Valve Bag Corp.
New York, N. Y.
Savage Co., W. J.
Knoxville, Tenn.
Union Special Machine Co.
Chicago Ill

Chicago, Ill

BAG FILLING MACHINES

Brown Bag Filling Machine Co.

Fitchburg, Mass.

(See Adv. on Page 163)
Ferguson Co., J. L.

Joliet, Ill.
Frazier & Son

Belleville, N. J.

Howes Co., Inc., S.

Silver Creek, N. Y.

(See Adv. on Page 167) (See Adv. on Page 167)
Huntley Mfg. Co.
Brocton, N. Y.

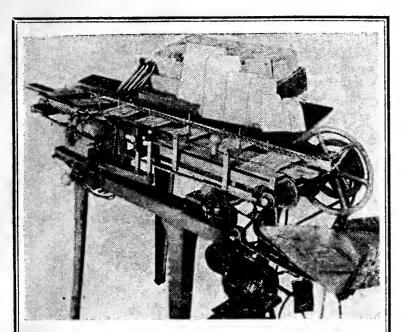
Brocton, N. Y.
Lehmann Co., Inc., J. M.
New York, N. Y.
Richardson Scale Co.
Clifton, N. J.
Sidney Grain Machinery Co.
Sidney, Ohio
Stokes & Smith Co., The
Philadelphia, Pa.
Union Special Machine Co.
Chicago, Ill.

#### BAG HOLDERS

Howes Co., Inc., S.
Silver Creek, N. Y.
(See Adv. on Page 167)
Richardson Scale Co.
Clifton, N. J.
Sprout, Waldron & Co.

Muncy, Pa.

Reference Section Index-Page 4



# The improved QUICK-SEAL Envelope Sealing Machine

Will solve your seed packet and catalog envelope sealing problems.

Designed and manufactured by a seedsman especially for seedsmen.

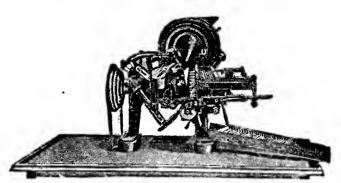
Instantly adjustable to any size from small flower seed packets to pounds of beans and catalog envelopes. Capacity up to 6000 per hour and economically seals very small quantities. No servicing required—nothing to wear out. Pays for itself in one season.

For complete information write

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# BROWN SEED PACKET FILLERS



We manufacture a complete line of Return Envelopes, Seed Packets, Catalog Envelopes, Bag-Filling Machines for filling seeds in flat packets and Bag-Making machines. BROWN BAG FILLING MACHINES automatically fill flat packets with all varieties of seeds. Measure the seed. Fill the packet. Seal it tight. Require but one operator. Deliver 3,000 packets per hour. Reduce labor costs. Eliminate waste. Insure accuracy. Speed up orders.

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THE BROWN BAG FILLING MACHINE COMPANY

**FITCHBURG** 

**MASSACHUSETTS** 

# SEED BAG TRIERS

# QUICK — SAFE CONVENIENT

Seed triers for quick, convenient drawing of samples without opening or tearing bag. Brass with steel point heavily nickel plated, with solid leather protector.

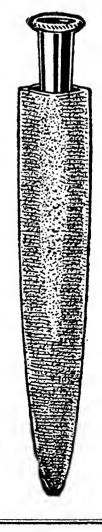
6 in. long, Price \$1.00 ea.; \$10.50 per doz. 9 in. long, with metal shield, Price \$2.00 ea. 12 in. long, with metal shield, Price \$3.00 ea.

# Seed Trade Reporting Bureau 325 W. Huron St.

**CHICAGO** 

ILLINOIS





#### SEEDSMEN'S SUPPLIES—Continued

#### BAG MAKING MACHINES

Brown Bag Filling Machine Co. Fitchburg. Mass.
(See Adv. on Page 163)

#### BAG PILERS—CONVEYORS

Revolvator Co. Jersey City, N. J.

#### BAG SEALS

Bates Valve Bag Corp.
New York, N. Y.
Brooks Co., E. J.
Newark, N. J.
(See Adv. on Page 165)

Porter Safety Seal Co.
Chicago, Ill.
(See Adv. on Page 165)

Protecto-Seal Co.
Buffalo, N. Y.
(See Adv. on Page 165)

#### BAG STITCHING MACHINES

Savage Co., W. J.
Knoxville, Tenn.
Union Special Machine Co. Chicago, Ill.

#### BAG TRIERS

Seed Trade Reporting Bureau Chicago, Ill. (See Adv. on Page 163)

#### BASKETS

Planters Mfg. Co., Inc. (Field Tomato)
Portsmouth, Va.
Standard Basket Co. Chicago, Ill.

#### BEAN PICKERS

Ferrell & Co., A. T.:
Saginaw, Mich.
Howes Co., Inc., S.
Silver Creek, N. Y.
(See Adv. on Page 167)
Huntley Mfg. Co.
Brocton, N. Y.

#### BAGS—COTTON OR BURLAP

Bemis Bro. Bag Co.
St. Louis, Mo.
(See Adv. on Page 1)
Chase Bag Co.
Cleveland, Ohio
Cincinnati Bag Co.
Cincinnati, Ohio

Cincinnati, C National Bag Co

Naperville, Ill.
National Bag Co., Inc.
St. Louis, Mo.
Southern Cotton Mills Agency
Baltimore, Md.

#### BAGS—PAPER

Bates Valve Bag Corp.
New York, N. Y.
Bemis Bro. Bag Co.
St. Louis, Mo.
(See Adv. on Page 1)
Brown Bag Filling Machine Co.
Fitchburg, Mass.

Brown Bag Filling Machine Co.
Fitchburg. Mass.
(See Adv. on Page 163)
Chase Bag Co.
Cleveland, Ohio
Disbrow Mfg. Co. (Satchel Bot and Packets)
Newark, N. J.
(See Adv. on Page 174)
International Paper Co.
New York, N. Y.
Miller, Tompkins & Co.
East Rutherford, N. J. (Satchel Bottom Bags

East Rutherford, N. J. (See Adv. on Page 169)

#### BELTING

Atlantic Mfg. Co. (Rubber and Leather) Wilmington, Del.

#### BLOWERS—ELECTRIC

Oliver Mfg. Co.

St. Louis, Mo. (See Adv. on Page 55)

#### BOX LABELS AND HANGERS

Genesee Valley Lithograph Co. Rochester, N. Y.

#### BOXES—PARCEL POST

Campbell Box & Tag Co. South Bend, Ind. (See Adv. on Page 175)

Disbrow Mfg. Co.
Newark, N. J.
(See Adv. on Page 174)
Container Corp. of America

Chicago, Ill.

Gaylord, Inc., Robt.
St. Louis, Mo.
Goodwillie Co., D. M.
Chicago, Ill.
Indiana Fibre Products Co.
Marion Ind

Marion, Ind. Hinde & Dauch Paper Co. Sandusky, Ohio

#### BULB EDGE GLASS

Heller & Co., W. C. Montpelier, Ohio

#### CANS—FIBRE AND TIN

American Can Co. Chicago, New York and San Francisco Sefton Nat'l Fibre Can Co. Chicago, Ill.

#### CARTONS—PAPER

Bird & Son
East Walpole, Mass.
(See Adv. on Page 55)
Campbell Box & Tag Co.
South Bend, Ind.

(See Adv. on Page 175)

Disbrow Mfg. Co. (Corrugated)

Newark, N. J.

(See Adv. on Page 174)

Galloway Lithographing Co.
San Francisco, Calif.
(See Adv. on Page 165)
Gereke-Allen Carton Co.
St. Louis, Mo.

Stecher-Traung Lithograph Corp.
Rochester, N. Y.

(See Adv. on Page 173)
Weaver Mailing Env. & Box Co.

Philadelphia, Pa. Webster Co., Mel L. Independence, Ia.

#### CARTONS—PRINTED

Disbrow Mfg. Co.
Newark, N. J.
(See Adv. on Page 174)
Galloway Lithographing Co.
San Francisco, Calif.
(See Adv. on Page 165)
Genesee Valley Lithograph Co.
Rochester, N. Y.
Stecher-Traung Lithograph Corp.
Rochester, N. Y.
(See Adv. on Page 173)

#### CATALOG COLORED COVERS

Benton Review Shop Fowler, Ind.

Dubois Press

Rochester, N. Y. Excelsior Printing Co.

Chicago. Ill.

Galloway Lithographing Co.
San Francisco, Calif.
(See Adv. on Page 165)

Genesee Valley Lithograph Co.
Rochester, N. Y.

Horticultural Press, Inc., The
Chicago. Ill.

Chiengo, Ill. (See Adv. on Page 172)



# SEALS and SELLS

A Tamper Proof Seal which displays your trademark or brand name in colors. May be attached to the bag with cord, wire or ribbon. Write for Samples and Complete Information.

PROTECTO SEAL CO., INC. 1337 MAIN STREET BUFFALO, NEW YORK

# SEED PACKETS

FOR THE MOST COMPLETE LINE OF

FLOWER & **VEGETABLE** PACKETS

SEE THE

**GALLOWAY LINE** 

SCHMIDT LITHOGRAPH CO. GALLOWAY LITHO. CO. DIVISION SAN FRANCISCO CAL.

Every bag of seed sold on a quality basis should be PROTECTED from

ADULTERATION or SUBSTITUTION

with

### THE PORTER SAFETY SEAL

The Seal That Seals

The sealing implement imprints your name and address on the lead-and-cord seal and is equipped with a cord tightening device which pulls the cords so tight around the neck of the bag that the

seal cannot be removed or manipulated without destroying the seal.

Sample sealed bag and information sent on request.

PORTER SAFETY SEAL COMPANY

269 N. California Ave. Chicago

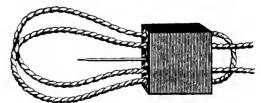


**GRIP-LOCK** the foolproof

SELF-LOCKING **BAG SEAL** 

The GRIP-LOCK is the very latest development in Bag Seals and is ideal for seedsmen's use. It prevents substitution and adulteration. After being once locked, relocking is impossible. It is also simple and easy to use as no machine is needed.

The lead pin bag seal SHOWN BELOW is another of the many types we manufacture for sealing seed bags.



Write for Sample and Complete Information

E. J. BROOKS CO. 164 North 13th St. Newark, N. J.

#### SEEDSMEN'S SUPPLIES—Continued

International Seed Service, Inc. ·Catalog Colored Covers—Continued New York, N. Y.
(See Adv. on Page 59)
ional Seed Laboratory McFarland Co., J. Horace
Harrisburg, Pa.
Morse Co., A. B.
St. Joseph, Mich.
Pitts Studios, Inc.
Rochester, N. Y. National Toledo, Ohio COPYRIGHTS Rochester, N. Y.

Stecher-Traung Lithograph Corp.
Rochester, N. Y.

(See Adv. on Page 173)

Wallace-Homestead Co.
Des Moines, Iowa Anderson, Wm. E. Chicago, Ill. Ely & Pattison New York, N. Y. CORN CRACKERS Sedberry, Inc., J. B.
Utica, N. Y.
(See Adv. on Page 167) CATALOG ILLUSTRATIONS McFarland Co., J. Horace Harrisburg, Pa. Pitts Studios, Inc. Rochester, N. Y. CORN GRADERS

Baier Bros. Mfg. Co.
 Cissna Park, Ill.

Cleland Mfg. Co.
 Minneapolis, Minn.

Ferrell & Co.. A. T.
 Saginaw, Mich.

Howes Co., Inc., S.
 Silver Creek, N. Y.
 (See Adv. on Page 167)

Hunnicutt Co., Chas.
 Wilmington, Ohio

Huntley Mfg. Co.
 Brocton, N. Y.

Owens Co., J. L.
 Minneapolis, Minn. CORN GRADERS CATALOG PRINTERS American Colortype Co. Chicago, Ill.
Benton Review Shop (Stock Seed Catalogs) Fowler, Ind.

Byrd Press, Inc., The Wm.

Richmond. Va.

DeLaMare Co., Inc., A. T.

New York, N. Y.

Du Bois Press Rochester, N. Y.
Excelsior Printing Co.
Chicago, Ill.
Hall Printing Co., W. F.
Chicago, Ill.
Horticultural Press, Inc., The Owens Co., J. L.

Minneapolis, Minn.
Richards & Sons, Ross V.

North Manchester, Ind.
Savage Co., W. J.

Knoxville, Tenn.
Sutton, Steele & Steele

Dallas. Texas

(See Adv. on Page 21)
Universal Hoist & Mfg. Co.

Cedar Falls, Iowa

(See Adv. on Page 167) Horticultural Press, Inc., The Chicago, Ill.

(See Adv. on Page 172)

McFarland Co., J. Horace
Harrisburg, Pa.

Morse Co., A. B.
St. Joseph, Mich.

Process Color Printing Co.
Rochester, N. Y.

Wallace-Homestead Co.
Des Moines, Iowa CORN SHELLERS

Duplex Mill & Mfg. Co., The
Springfield, Ohio
Gruendler Crusher & Pulv. Co.
St. Louis, Mo.

Howes Co., Inc., S.
Silver Creek, N. Y.
(See Adv. on Page 167)
Union Iron Works
Decatur, Ill. CLEANING MACHINERY Carter-Mayhew Mfg. Co. Minneapolis. Minn. Minneapolis. Minn.
Cleland Mfg. Co.
 Minneapolis, Minn.
Eddy Seed Cleaners, Ltd.
 Toronto, Ont., Can.
Ferrell & Co., A. T.
 Saginaw. Mich.
Howes Co., Inc., S.
 Silver Creek, N. Y.
 (See Adv. on Page 167)
Huntley Mfg. Co.
 Brocton, N. Y.
Oliver Mfg. Co.
 St. Louis, Mo. Decatur, Ill. CORN SORTERS Howes Co., Inc., S.
Silver Creek, N. Y.
(See Adv. on Page 167)
Universal Hoist & Mfg. Co.
Cedar Falls. Iowa (See Adv. on Page 167) Oliver Mfg. Co
St. Louis, Mo.
(See Adv. on Page 55)
Owens Co., J. L.
Minneapolis, Minn.
Rice, W. A.
Jerseyville, Ill.
Sidney Grain Machinery Co.
Sidney, Ohio
Sprout. Waldron & Co.
Muncy, Pa.
Sutton. Steele & Steele, Inc. CRACKED CORN CLEANERS AND **GRADERS** Duplex Mill & Mfg. Co., The Springfield. Ohio Gruendler Crusher & Pulv. Co. St. Louis, Mo. St. Louis, Mo.

Howes Co., Inc., S.
Silver Creek. N. Y.
(See Adv. on Page 167)

Huntley Mfg. Co.
Brocton, N. Y.
Savage Co., W. J.
Knoxville, Tenn.
Sutton, Steele & Steele, Inc.
Dallas. Texas
(See Adv. on Page 21)

Universal Hoist & Mfg. Co.
Cedar Falls. Iowa
(See Adv. on Page 167) Steele & Steele, Inc. Dallas, Texas (See Adv. on Page 21) COLOR REPRODUCTIONS FOR SEEDSMEN AND NURSERYMEN **Dubois Press** Rochester, N. Y. Horticultural Press, Inc., The Morticultural Press, Inc., The Chicago, Ill.

(See Adv. on Page 172)

McFarland Co., J. Horace
Harrisburg, Pa.

Morse Co., A. B.
St. Joseph, Mich.

Pitts Studios, Inc.
Rochester, N. Y. CRUSHERS Gruendler Crusher & Pulv. Co. St. Louis, Mo. St. Louis, Mo.
Sedberry, Inc., J. B.
Utica. N. Y.
(See Adv. on Page 167)
Straub Co., The A. W.
Philadelphia, Pa.
Williams Patent Crusher & Pulv. Co. COMMERCIAL SEED TESTING

St. Louis. Mo.

Commercial Seed Laboratory
Washington, D. C., and Toledo. O.

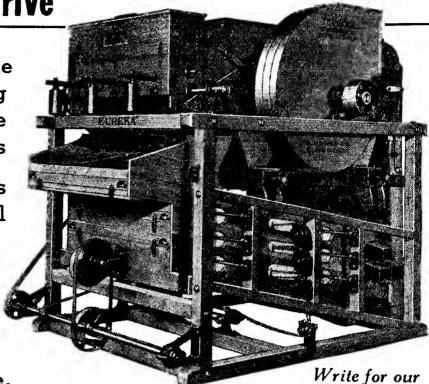
**EUREKA Standardized SEED CLEANER** with Eureka Buhler Drive

A modern, efficient machine for doing thorough cleaning and making better, more accurate seed separations

- excellent air separations under perfect control
- closer, more uniform screen separations

Smooth, guiet, steady in operation - vibrationless, eccentric-less Buhler Drive,

ball bearings, automatic brush sieve cleaners.



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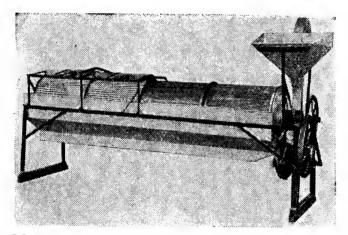


S. HOWES COMPANY, Inc. Silver Creek

**New York** 



# THE MORECORN SEED CORN GRADER

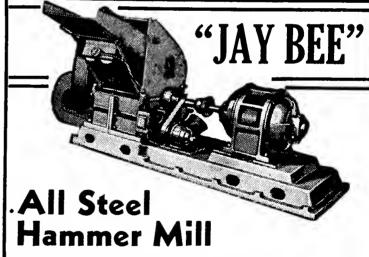


Most efficient and accurate Grader for all varieties of Field Corn, Sweet Corn, Pop Corn as well as beans and other similar grains. Illustration above shows style No. 3, capacity 30 to 40 bushels per hour equipped with electric motor drive. Air Fan Cleaning attachment furnished if desired.

Also made in two smaller sizes with capacity of 6 or 12 Bu. per hour.

Morecorn Graders have been made and sold for the past 25 years, fully guaranteed subject to 10 days trial. Write for detailed information and prices.

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Here's a Real Business-Builder and Money-Maker

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Write for detailed description, prices, terms, etc.

J. B. SEDBERRY, INC.

167 Hickory St., Utica, N. Y.

#### SEEDSMEN'S SUPPLIES-Continued

#### Seed Trade Reporting Bureau Chicago, Ill. (See Adv. on Page 87) Specialty Mfg. Co. St. Paul, Minn. Standard Scientific Supply Corp. New York City, N. Y. DUST COLLECTORS Day Co., The Minneapolis, Minn. Gruendler Crusher & Pulv. Co. St. Louis, Mo. Howes Co., Inc., S. Silver Creek, N. Y. (See Adv. on Page 167) Huntley Mfg. Co. Brocton, N. Y. Oliver Mfg. Co. St. Louis, Mo. (See Adv. on Page 55) GRAIN MILLS Sedberry, Inc., J. B. Utica, N. Y. (See Adv. on Page 167) GRAIN AND SEED CLEANERS Carter-Mayhew Mfg. Co. Minneapolis, Minn. Ferrell & Co., A. T. Saginaw, Mich. Howes Co., Inc., S. Silver Creek, N. Y. (See Adv. on Page 167) Huntley Mfg. Co. Brocton, N. Y. Oliver Mfg. Co. St. Louis, Mo. (See Adv. on Page 55) Sutton, Steele & Steele Dallas, Texas (See Adv. on Page 21) Carter-Mayhew Mfg. Co. DUST PROTECTORS Garnett, Herbert (Respirators) Maumee, Ohio Seed Trade Reporting Bureau Chicago, Ill. ELEVATORS—AIRLIFT Oliver Mfg. Co. St. Louis, Mo. (See Adv. on Page 55) **ENVELOPES** Berkowitz Envelope Co. Kansas City, Mo. Brown Bag Filling Machine Co. (See Adv. on Page 21) Technical Sales Co. New York, N. Y. Fitchburg, Mass. (See Adv. on Page 163) Cupples-Hesse Env. & Litho. Co. GREENHOUSES Callahan Co., T. J. Dayton, Ohio Foley Greenhouse Mfg. Co. Forest Park, Ill. Lord & Burnham Co. Irvington, N. Y. Metropolitan Greenhouse Mfg. Corp. Brooklyn, N. Y. Cupples-Hesse Env. & Litho. Co. St. Louis, Mo. Disbrow Mfg. Co. Newark, N. J. (See Adv. on Page 174) Gaw-O'Hara Envelope Co. Chicago, Ill. Heco Envelope Co. Chicago. Ill. (See Adv. on Page 169) Heinrich, Inc.. John A. Minneapolis, Minn. Letalog Mailer Co. Chicago, Ill. Miller, Tompkins & Co. East Rutherford, N. J. (See Adv. on Page 169) Weaver Mailing Envelope & Box Co. Philadelphia, Pa. Brooklyn. N. Y. Yoho & Hooker Youngstown, Ohio HAMMER MILLS Sedberry, Inc., J. B. Utica, N. Y. (See Adv. on Page 167) HULLERS Allis Chalmers Mfg. Co. Milwaukee, Wis. Ferrell & Co., A. T. Saginaw, Mich. Howes Co., Inc., S. Silver Creek, N. Y. (See Adv. on Page 167) Philadelphia, Pa. Anglo-American Mill Co. Owensboro, Ky. Duplex Mill & Mfg. Co., The Springfield, Ohio Fairbanks, Morse & Co. Chicago. Ill. Gruendler Crusher & Pulv. Co. St. Louis, Mo. Savage Co., W. J Knoxville. Tenn. Sedberry, Inc., J. B. FEED GRINDERS IRRIGATION SYSTEMS Dayton Irrigation Co. Dayton, Ohio March Automatic Irrigation Co. March Automatic Hilgarion Co. Muskegon, Mich. White Showers, Inc. Detroit. Mich. X. L. Mfg. Co. Chicago, Ill. (See Adv. on Page 139) Sedberry, Inc., J. B. Utica, N. Y. (See Adv. on Page 167) Williams Patent Crusher & Pulv. Co. LABORATORY EQUIPMENT Heller & Co., W. C. Montpelier, Ohio Howes Co., Inc., S. (Model Cleaners, Etc.) Silver Creek, N. Y. (See Adv. on Page 167) Seed Trade Reporting Bureau Chicago, Ill. (See Adv. on Page 87) Specialty Mfg. Co. St. Paul, Minn. Standard Scientific Supply Corp. New York City, N. Y. Torsion Balance Co. New York City, N. Y. LEGAL AID St. Louis, Mo. FEED PACKAGING MACHINERY Ferguson Co., J. L. Joliet, III. Frazier & Son Relleville N. T. Belleville, N. J. Howes Co., Inc., S. Silver Creek, N. Y. (See Adv. on Page 167) Huntley Mfg. Co. Brocton, N. Y. Richardson Scale Co. Clifton, N. J. FENCING Buffalo Wire Works Co., Inc. Buffalo. N. Y. Michigan Wire Goods Co. Niles, Mich. LEGAL AID Anderson, Wm. E. Chicago, Ill. Bebb, Herbert Chicago, Ill. Ely & Pattison New York, N. Y. Smith, Curtis Nye Boston. Mass. (See Adv. on Page 139)

**GERMINATORS** 

Herbst Bros.

New York, N. Y.

(See Adv. on Page 131 & 73)

**ESTABLISHED 1894** 

# KRAFT SEED BAGS

OF PROVEN MERIT

WHITE P.K. EMBOSSED BAGS

ATTRACTIVELY PRINTED FOR



LAWN GRASS SEED

MANUFACTURED AND PRINTED BY

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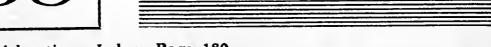
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of the millions of dollars spent in the seed trade by 12,500,000 buyers through SEED WORLD which reaches Retail, Wholesale Jobbers and Mail Order Seed Merchants, Hardware, Drug, Florists, Nurserymen and Other Dealer Trade Handling Seeds in the Agricultural and Horticultural Fields. Ask for further details.



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HECO ENVELOPE CO. 4500 CORTLAND ST. — CHICAGO



#### SEEDSMEN'S SUPPLIES—Continued

#### MIXERS-MOLASSES

Sedberry, Inc., J. B.
Utica, N. Y.
(See Adv. on Page 167)

#### MIXERS—SEED OR FEED

Gruendler Crusher & Pulv. Co.

Gruendler Crusher & Pulv. Co.
St. Louis, Mo.

Howes Co., Inc., S.
Silver Creek, N. Y.

(See Adv. on Page 167)

Huntley Mfg. Co.
Brocton, N. Y.

Oliver Mfg. Co.
St. Louis, Mo.

St. Louis, Mo.
(See Adv. on Page 55)
Sedberry, Inc., J. B.

Utica, N. Y.

(See Adv. on Page 167)

Sprout, Waldron & Co.

Muncy, Pa. Williams Patent Crusher & Pulv. Co. St. Louis, Mo.

#### OAT CRUSHERS

Sedberry, Inc., J. B. Utica, N. Y. (See Adv. on Page 167)

#### PACKET FILLING

Brown Bag Filling Machine Co. Fitchburg, Mass.

(See Adv. on Page 163)
Ferguson Co., J. L.

Joliet, Ill.
Frazier & Son

Belleville, N. J.
Lehman Co., Inc., J. M.

New York, N. Y.
Wright-Dalton Machine Co.

Wright-Dalton Machine Co. Durham, N. C.

#### PACKET FILLING MACHINES

Automatic Packaging Machinery Co. Nashua. N. H. Brown Bag Filling Machine Co.

Brown Bag Filling Machine Co.
Fitchburg, Mass.

(See Adv. on Page 163)
Consolidated Packaging Machinery Corp.
Buffalo, N. Y.
Ferguson Co., J. L.
Joliet, Ill.
Frazier & Son
Belleville, N. J.
Lehmann Co., Inc., J. M.
New York, N. Y.
Packaging Machinery Co.
Yonkers, N. Y.
Stokes & Smith Co.. The
Philadelphia. Pa.
Wright-Dalton Machine Co.
Durham, N. C.

PASTES—GILLES—GLIMS

#### PASTES—GLUES—GUMS

Findley Co., F. G. Milwaukee, Wis.

#### PATENT ATTORNEY

Anderson, Wm. E. Chicago, Ill.
Ely & Pattison
New York, N. Y.
Scheible, Albert

Chicago, Ill.

#### PAPER FOR CATALOGS

Consolidated Water Power & Paper Co.

Wisconsin Rapids, Wis.

(See Adv. on Page 171)
International Paper Co.
New York, N. Y.
Kimberly-Clark Co.
Chicago. Ill.
Marquette Paper Co.
Chicago, Ill.

#### PAPER—MULCH

International Paper Co. New York, N. Y.

#### PAPER—WRAPPING

Disbrow Mfg. Co.
Newark, N. J.
(See Adv. on Page 174)
International Paper Co.
New York, N. Y.
Safepack Mills
Millis Mass

Millis, Mass.

#### PATTERN GARDENS

International Paper Co. New York, N. Y.

#### POSTERS

Galloway Lithographing Co., Inc.
San Francisco, Calif.
(See Adv. on Page 165)
Genesee Valley Lithograph Co.
Rochester, N. Y.
Horticultural Press

Morse Co., A. B.
St. Joseph, Mich.
Stecher-Traung Lithograph Corp.
Rochester. N. Y.
(See Adv. on Page 172)

(See Adv. on Page 173)

#### PORTABLE MILLS

Sedberry, Inc., J. B. Utica, N. Y.

(See Adv. on Page 167)

#### POULTRY FEED MACHINERY

Howes Co., Inc., S.

Silver Creek, N. Y.

(See Adv. on Page 167)

Huntley Mfg. Co.

Brocton, N. Y.

Sedberry, Inc., J. B.

Utica, N. Y.

(See Adv. on Page 167)

Williams Patent Crusher & Pulv. Co.

St. Louis Mo. St. Louis, Mo.

#### SAMPLE CASES

Hamilton Mfg. Co.
Two Rivers, Wis.
Heller & Co., W. C.
Montpelier, Ohio
Knickerbocker Case Co.

Chicago, Ill.

#### SAMPLE PANS

Seed Trade Reporting Bureau Chicago, Ill. (See Adv. on Page 149)

### SAWDUST FOR CLEANING

Miller & Son, Frank Chicago, III.

#### SCALES—AUTOMATIC

SCALES—AUTOMAT.

Exact Weight Scale Co., The
Columbus, Ohio
(See Adv. on Page 171)

Fairbanks, Morse & Co.
Chicago, Ill.

Ferguson Co., J. L.
Joliet, Ill.

Howes Co., Inc., S.
Silver Creek, N. Y.
(See Adv. on Page 167)

Richardson Scale Co.
Clifton, N. J.

Stokes & Smith Co., The
Philadelphia, Pa.

Toledo Scale Co.

Toledo Scale Co. Toledo, Ohio Triner Sales Co. Chicago, Ill.

#### SCALES—COUNTER or PLATFORM

Exact Weight Scale Co., The Columbus, Ohio
(See Adv. on Page 171)
Fairbanks, Morse & Co.

Chicago, Ill.

Directory Section Index-Page 4

Get More Packages from

Bulk Weight by using

**EXACT WEIGHT** 

SCALES

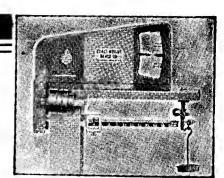
Don't allow overweight packages to rob you of your profits. Exact Weight Scales combine hairline accuracy with unbelievable speed . . . I/100 oz. sensitivity, if required for costly seeds.

Write for descriptive literature and prices on various models . . . no obligation.

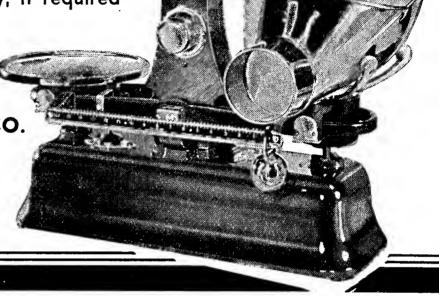
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Makers of scales weighing from 1/100 ounce to 500 pounds.



Under-and-Overweight Head for attachment to your present platform scale.



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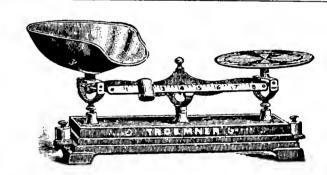


Fig. 39. AGATE SEED SCALE

# Henry Troemner

Manufacturer

Fine Balances, Scales, Weights for Testing and Grading of Seed, Grain, etc.

Many Types for Many Uses

EST. 1840

CATALOG- No. 1926 S 911 ARCH ST. PHILA., PA.

#### SEEDSMEN'S SUPPLIES—Continued

Scales-Counter or Platform-Continued Howes Co., Inc., S.
Silver Creek, N. Y.
(See Adv. on Page 167)

Seed Trade Reporting Bureau

Chicago, Ill. (See Adv. on Page 151) Toledo Scale Co.

Toledo, Ohio
Torsion Balance C
New York City
Triner Sales Co.
Chicago, Ill.

Troemner Co., Henry Philadelphia, Pa. (See Adv. on Page 171)

#### SCALES—LABORATORY

Seed Trade Reporting Bureau

Seed Trade Reporting Bureau
Chicago, Ill.
(See Adv. on Page 151)
Standard Scientific Supply Corp.
New York City, N. Y.
Torsion Balance Co.
New York City, N. Y.
Troemner Co., Henry
Philadelphia, Pa.
(See Adv. on Page 171)

#### SCALPING SHOES

Oliver Mfg. Co. St. Louis, Mo. (See Adv., on Page 55)

#### SCARIFIERS

Allis-Chalmers Mfg. Co. Milwaukee, Wis.
Cleland Mfg. Co.
Minneapolis, Minn.
Ferrell & Co., A. T.
Saginaw, Mich.

Howes Co., Inc., S.
Silver Creek, N. Y.
(See Adv. on Page 167)
Savage Co., W. J.
Knoxville, Tenn.

#### SCREENS

Cleland Mfg. Co. (Sieves)
Minneapolis, Minn.
Erdle Perforating Co.
Rochester, N. Y. 

Ferrell & Co., A. T.
Saginaw, Mich.
Howes Co., Inc., S.
Silver Creek, N. Y.
(See Adv. on Page 167)
Huntley Mfg. Co.
Brocton, N. Y.
Seed Trade Reporting Bureau
Chicago. III.

Chicago, Ill.
(See Adv. on Page 147)
Sutton, Steele & Steele, Inc.
Dallas, Texas
(See Adv. on Page 21)

#### SEALS

Bates Valve Bag Corp. New York, N. Y.

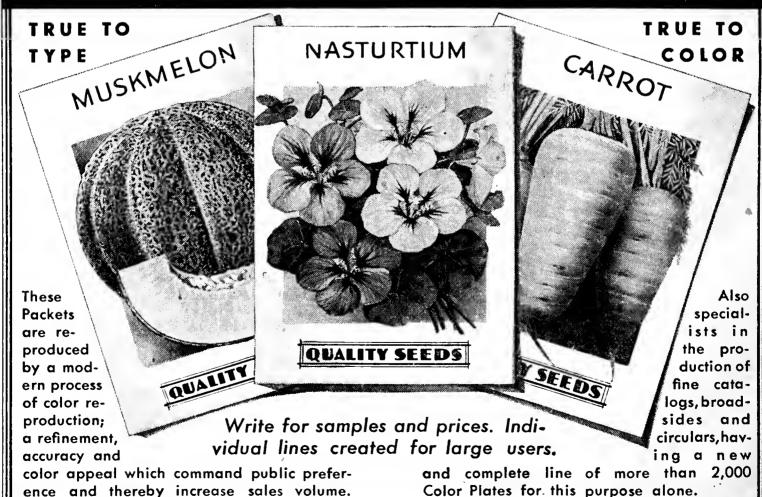
Bates Valve Bag Corp.
New York, N. Y.
Brooks Co., E. J.
Newark, N. J.
(See Adv. on Page 165)
Porter Safety Seal Co.
Chicago, Ill.
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Protecto-Seal Co.
Buffalo, N. Y.
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Heller & Co., W. C. Montpelier, Ohio Walkerbilt Penn Yan, N. Y.

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The Horticultural Press, Inc. 300-322 SOUTH RACINE AVENUE, CHICAGO, ILLINOIS

#### SEED CORN TESTERS

Baier Bros. Mfg. Co. Cissna Park, Ill. Seed Trade Reporting Bureau

Chicago, Ill.

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Specialty Mfg. Co.
St. Paul, Minn.

#### SEED DRIERS

Ellis Drier Works
Chicago, Ill.
Howes Co., Inc., S.
Silver Creek, N. Y.
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Randolph Co., O. W.
Toledo, Ohio
Richards & Sons, Ross V.
North Manchester, Ind.

#### SEED ENVELOPE SEALERS

Arnold, Schuyler

Coldwater, N. Y.

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Stokes & Smith Co., The
Philadelphia, Pa.
Wright-Dalton Machine Co.
Durham, N. C.

#### SEED EXTRACTORS—SPIRAL ROUND

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Silver Creek, N. Y.
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Fitchburg, Mass.
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Disbrow Mfg. Co.
Newark, N. J.
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Galloway Lithographing Co.
San Francisco, Calif.
(See Adv. on Page 165) (See Adv. on Page 165)
Genesee Valley Lithograph Co.
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Heinrich, Inc., John A.
Minneapolis, Minn.
Howtienland Press Inc. The

Horticultural Press, Inc., The Chicago, Ill.

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Stecher-Traung Lithograph Corp.
Rochester, N. Y.
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Davis Metal Fixture Co.

Davis Metal Fixture Co.

Lansing, Mich.

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Everitt's Convertible Display Case Co.
Decatur, Ga.

Hamilton Mfg. Co.
Two Rivers, Wis.

Heller & Co., W. C.
Montpelier, Ohio

Horticultural Press, Inc., The
Chicago, Ill.

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Manitowoc Building Supply Co.
Manitowoc, Wis.

Walkerbilt
Penn Yan, N. Y.
Webster Co., Mel. L.
Independence, Iowa

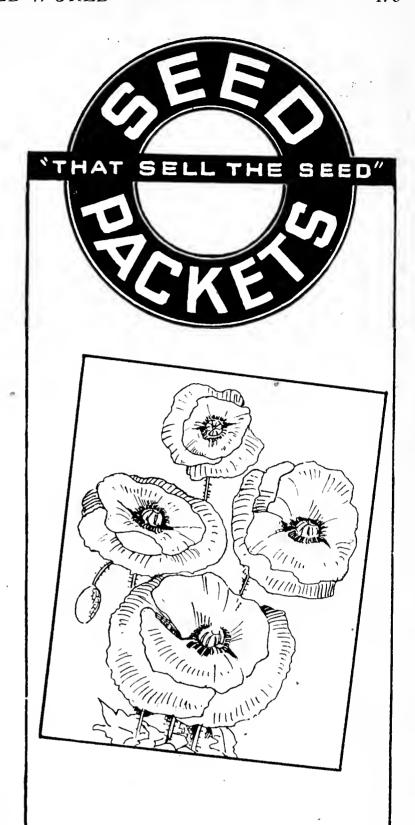
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Goodner Pump & Mfg. Co. Rocky Ford, Colo.

Howes Co., Inc., S.
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#### SEED SAMPLE ENVELOPES

Bemis Bro. Bag Co.
St. Louis, Mo.
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Cupples-Hesse Env. & Litho. Co.
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Chicago, Ill.
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Heinrich, Inc., John A.
Minneapolis, Minn.
Miller, Tompkins & Co.

Miller, Tompkins & Co.

East Rutherford, N. J.

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Stecher-Traung Lithograph Corp.

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Tension Envelope Co., Inc.

Brooklyn, N. Y.

Weaver Mailing Envelope & Box Co.

Philadelphia, Pa.

Western Envelope Co.

Western Envelope Co. Kansas City, Mo.

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Allis-Chalmers Mfg. Co.
Milwaukee, Wis.
Caledonia Bean Harvester Works

Caledonia, N. Y.

Caledonia. N. Y.
Case Co., J. I.
Racine, Wis.
Goodner Pump & Mfg. Co.
Rocky Ford, Colo.
Gray's Sons, Inc., A. W.
Poultney, Vt.
Howes Co., Inc., S.
Silver Creek, N. Y.
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International Harvester Co.
Chicago, Ill.
Koger Pea & Bean Thresher Co.
Morristown, Tenn.
Owens Co., J. L.

Owens Co., J. L.

Minneapolis, Minn.

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South Bend, Ind.
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Cupples-Hesse Env. & Litho. Co.
St. Louis, Mo.

Dennison Mfg. Co. Framington, Mass.

Disbrow Mfg. Co. Newark, N. J. (See Adv. on Page 174)

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Manitowoc Building Supply Co.

Manitowoc, Wis.

National Cash Register Co.

Dayton Ohio

Dayton, Ohio

Walkerbilt

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#### TRADE MARK REGISTRATIONS

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Chicago, Ill.

#### TRUCKS—WAREHOUSE

Chase Foundry & Mfg. Co. Columbus, Ohio Steubing Truck Co.

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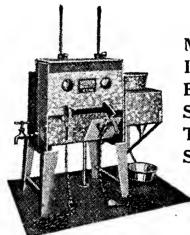
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#### EDITORIAL INDEX OF SEED WORLD—1934

For our readers' convenient reference a topical index of the most important articles published in Seed World from January to November, inclusive, during 1934, is given below. Copies of any particular issue (while the supply is available) may be procured by addressing a request to Secd World, Editorial Department, 325 W. Huron St., Chicago, Ill.—Price 15 cents per copy.—Ed.

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